

MEMO

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From:
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Date: **February 20, 2008** ARCADIS Project No.: **NJ000604.001**

Subject: Draft Technical Memorandum – Site-Wide Groundwater Sampling

ARCADIS U.S., Inc. (ARCADIS), on the behalf of Ford Motor Company, has prepared this Technical Memorandum to outline the results of the October 2007 Site-wide Groundwater Sampling Event for the Ringwood Mines/Landfill Site, Ringwood, New Jersey (Site). Detailed below is the scope of services that were performed between October 8, 2007 and October 17, 2007 in accordance with the approved July 2004 Post-Environmental Monitoring Program Sampling Work Plan and the approved August 8, 2006 Groundwater Sampling Work Plan pursuant to the United States Environmental Protection Agency's ("EPA") April 7, 2006 request.

SCOPE OF WORK

ARCADIS performed groundwater sampling and monitored groundwater elevations on the following: wells OB-1 through OB-7, OB-10, OB-12, OB-13, OB-14A, OB-14B, OB-15B, OB-16, OB-17, OB-18, OB-19, OB-20A, OB-20B, OB-21, OB-22, OB-23, OB-24, OB-25, RW-1, RW-2, RW-3, RW-4, RW-5 and 5A, RW-6 and 6A and RW-7¹. Additionally, groundwater sampling was conducted at the SC-1 at the Peters Mine Pit and the Peters Mine air shaft. Well locations are shown on Drawing 1. Well details are shown in Table 1.

¹ Wells OB-22 and OB-23 were gauged for depth to water several times during the duration of this groundwater sampling event and were found to be essentially dry with too little water for sample collection. Water levels were found to be at low levels throughout the site.

ARCADIS collected groundwater samples from each well using the groundwater sampling and analytical procedures documented in the Quality Assurance Project Plan. The wells were purged prior to sampling in compliance with the low-flow methods presented in the USEPA Ground Water Sampling SOP FINAL (March 1998). Purging data on groundwater field parameters (pH, oxygen-reduction potential [ORP], temperature, conductivity, and turbidity) and measured groundwater depths were recorded (see groundwater sampling logs in Attachment A). These data are summarized in Table 2 and Table 3.

As specified in the Post-Environmental Monitoring Program Sampling Work Plan, each sample was analyzed for Target Analyte List ("TAL") inorganic compounds, Target Compound List ("TCL") organic constituents, and anions [chloride, sulfate, carbonate and bicarbonate, nitrate and phosphate].² Samples were not analyzed for pesticides based on an e-mail from USEPA dated April 2, 2007 which approved the removal of these constituents from the required analytical for the semi annual groundwater sampling events.

The samples were analyzed at the laboratory using the following SW-846 methodology as described in the USEPA-approved QAPP (May 2004):

- Volatile Organics – USEPA Method 8260B
- Semi-Volatile Organics – USEPA Method 8270C
- Metals – USEPA Methods 6010B/7470A
- PCBs – USEPA Methods 8082
- Cyanide – USEPA Method 9012A

Table 4 identifies the sampling intervals tested on the bedrock wells during the October 2007 Site-wide Groundwater Sampling Event. Individual bedrock sampling intervals were isolated using inflatable packers.

RESULTS

In October 2007 a total of 44 groundwater samples were collected from 32 wells and the Peters Mine air shaft at the Ringwood Mines/Landfill Site. These included 24 shallow groundwater wells, consisting of 13 wells installed in an unconsolidated layer, 1 directional well, and 9 wells installed in shallow bedrock. Samples were also collected at 9 deeper bedrock groundwater wells. The deep groundwater samples were collected at depths ranging from 10 to 472 feet below ground surface (bgs).

Required quality control samples were obtained in accordance with NJDEP and Quality Assurance Project Plan (QAPP) procedures specified in the Work Plan. Where adequate sample volumes were obtained, both unfiltered (total metal) and filtered groundwater samples were analyzed for metals in order to acquire analytical data reflective of actual groundwater conditions.

² The cations (calcium, magnesium, potassium, and sodium) are included as target metals in the TAL inorganic compound analysis protocol.

All sample results were reviewed and validated by ARCADIS in accordance with the QAPP. Validation qualifiers and comments were added to the data tables as appropriate. No data were invalidated. The results of the 2007 Site-Wide Groundwater Sampling event are presented on Drawing 2, and summarized within Table 5.

The results of these analyses were compared to NJDEP's Class IIA Ground Water Quality Standards (GWQS), including certain metals for which NJDEP's GWQS are based on EPA's non-health-based secondary, aesthetic standards (e.g., aluminum, iron, manganese, sodium, and zinc). See N.J.A.C. 7:9-6, et seq.

Following is a summary of the results of the October 2007 sampling event.

Groundwater Levels and Flow Directions

Groundwater levels vary at the site depending upon topography with groundwater shallower on the slopes of hills and ridges and becoming deeper towards the valley center. Depths to groundwater as determined by the water table surface range from several feet up to approximately 20 feet.

Overall, groundwater at the site flows down the valley in a southeasterly direction towards Mine Brook and Ringwood Creek.

Peters Mine Pit Area

Groundwater flow in the Peters Mine area is to the southeast sub-parallel to the course of Park Brook and away from the slopes of Whaleback and Hope Mountains. A map showing groundwater elevations and flow directions in the Peters Mine Pit Area during October 2007 is presented as Drawing 3.

O'Connor Disposal Area

Groundwater flow in the O'Connor Disposal Area is to the southeast sub-parallel to Park Brook and away from the slope of Whaleback Mountain. A map showing groundwater elevations and flow directions in the O'Connor Disposal Area during October 2007 is presented as Drawing 4.

Cannon Mine Pit Area

Groundwater flow in the Cannon Mine Pit Area is to the southeast toward Mine Brook based on October 2007 and previous data³. A map showing groundwater elevations and flow directions in the Cannon Mine Pit Area during October 2007 is presented as Drawing 5.

Cannon Mine Pit is located on a finger-like ridge and groundwater most likely flows away from the crown of the ridge in a manner similar to storm-water runoff. The crown of the ridge represents an approximate location of a groundwater divide. Well OB-13, located at the base of the western slope of the ridge (SR-6 area), typically has artesian water levels and is near an historical groundwater seep. This is indicative of groundwater flowing from the Cannon Mine pit area to the southwest toward Mine Brook, which wraps around the ridge as the brook flows toward Ringwood Creek.

³ Additional bedrock wells were installed in the Cannon Mine pit area in November 2007 as part of the Cannon Mine Pit Investigation. Water level measurements taken in December 2007 and January 2008 indicate groundwater levels in Cannon Mine pit are lower than in the surrounding bedrock wells.

The Cannon Mine pit breeches the crown of the ridge and thereby the trace of the groundwater divide. The presence of the Cannon Mine pit affects groundwater flow by creating alternate directions for both shallow and deeper groundwater flow that may locally reverse groundwater gradients and cause groundwater to flow toward the pit with this groundwater ultimately flowing to the southwest instead of the southeast.

Volatile Organic Compounds

Shallow Groundwater

- Unconsolidated and Directional Wells

None of the VOCs on the target compound list were detected above the GWQS in groundwater samples collected from 12 of the 14 unconsolidated monitoring wells. In two monitoring wells situated adjacent to Peters Mine Pit, OB-20B and SC-1, benzene was detected in both wells at 1.5 micrograms per liter ($\mu\text{g}/\text{L}$) which is slightly above the NJDEP GWQS of 1.0 $\mu\text{g}/\text{L}$.

- Shallow Bedrock Wells

None of the target compound list VOCs were detected above GWQS in samples collected from the shallow bedrock wells.

Deeper Groundwater

VOCs were not detected above GWQS in 6 of the 9 bedrock wells. Benzene exceeded the GWQS of 1.0 $\mu\text{g}/\text{L}$ in samples collected from RW-5, RW-6 and RW-6A, located at Peters Mine Pit. In RW-5, benzene was detected at a concentration of 1.8 $\mu\text{g}/\text{L}$. In RW-6, benzene was detected at a concentration of 2.6 $\mu\text{g}/\text{L}$ and in RW-6A at a concentration of 5.5 $\mu\text{g}/\text{L}$.

Peters Mine Air Shaft

Benzene exceeded the GWQS of 1.0 $\mu\text{g}/\text{L}$ in water samples collected from depths of 180 feet and 220 feet within the air shaft. Benzene was detected in these samples at concentrations of 30.1 $\mu\text{g}/\text{L}$ and 29.9 $\mu\text{g}/\text{L}$.

Semi-volatile Organic Compounds

Shallow Groundwater

- Unconsolidated and Directional Wells

SVOCs were not detected at concentrations above GWQS for the 14 shallow groundwater monitoring wells sampled.

- Shallow Bedrock Wells

SVOCs were not detected at concentrations above GWQS in groundwater collected from 8 of the 9 monitoring wells installed into shallow bedrock. Bis(2-ethylhexyl)phthalate was detected in the sample collected from well OB-1 at a concentration of 4.3 $\mu\text{g}/\text{L}$, which exceeded the GWQS of 3.0 $\mu\text{g}/\text{L}$.

Deep Groundwater

SVOCs were not detected in groundwater samples obtained from the deeper bedrock wells at concentrations above the GWQS, except for bis(2-ethylhexyl)phthalate, which was detected in samples collected from 3 of the wells. The samples that exceeded the GWQS, ranged in concentration from 1.9 – 26.4 µg/L within wells RW-1, RW-2 and RW-6.

Peters Mine Air Shaft

SVOCs were not detected in groundwater samples obtained from the air shaft at concentrations above the NJDEP GWQS.

Polychlorinated Biphenyls (PCBs)

None of the 7 PCB arochlors were detected above laboratory detection limits in any of the shallow or deep groundwater samples collected from the monitoring wells and the air shaft.

Metals

Shallow Groundwater

- Unconsolidated and Directional Wells

Lead was not detected above the GWQS of 5 µg/L in any filtered samples collected from wells installed in the unconsolidated layer. Lead was detected above the GWQS in two unfiltered groundwater samples, both collected at the Peters Mine Pit Area. Samples from wells OB-21 and SC-1 had concentrations of 27 µg/L and 8.8 µg/L, respectively.

Arsenic was detected above the GWQS of 3 µg/L in 3 unfiltered samples. The samples collected from wells located around the Peters Mine Pit Area, OB-20A and OB-21, contained arsenic at concentrations of 18.6 µg/L and 9 µg/L, respectively. The sample collected from well OB-14A in the O'Connor Disposal Area had a concentration of 23.1 µg/L. One well, OB-14A, also had an arsenic concentration (5.6 µg/L) above the GWQS in its filtered sample.

Iron was detected above GWQS of 300 µg/L in 11 of the 13 unfiltered samples collected from the shallow monitoring wells. The iron exceedences ranged from 598 µg/L to 60,800 µg/L. Manganese was detected above the GWQS of 50 µg/L in 12 of the 13 unfiltered sampled collected from the monitoring wells, ranging in concentrations from 214 µg/L to 9,120 µg/L. Aluminum was detected above the GWQS in 4 of the 13 unfiltered samples collected.

- Shallow Bedrock Wells

Lead was not detected above the GWQS of 5 µg/L in either filtered or unfiltered samples collected from the groundwater monitoring wells installed in the shallow bedrock. Arsenic was not detected in filtered or unfiltered samples above the GWQS of 3 µg/L in the 9 shallow bedrock wells.

Iron was detected above the GWQS of 300 µg/L in 5 of the 9 unfiltered samples collected from the shallow bedrock wells. Concentrations for the exceeded samples ranged from 1,440 to 20,900 µg/L. Three unfiltered samples exceeded the GWQS of 50 µg/L for manganese in 3 of the

9 bedrock wells. The sample collected from bedrock well OB-4 exceeded the GWQS for sodium with a concentration of 54,700 µg/L compared to the GWQS of 50,000 µg/L.

Deeper Groundwater:

Lead was not detected in any of the 19 unfiltered or filtered samples above the GWQS of 5 µg/L. The GWQS for arsenic (3 µg/L) was not exceeded in any of the sampled intervals at all 9 deep bedrock wells.

Iron concentrations exceeded the NJDEP GWQS of 500 µg/L in 16 of 19 unfiltered samples and 3 of 19 filtered samples in 9 deep bedrock wells. Manganese exceeded its GWQS in 10 of 19 unfiltered samples and in 10 of 19 filtered samples. Aluminum, sodium and zinc exceeded NJDEP's GWQS in one or more unfiltered samples.

Peters Mine Air Shaft

Neither arsenic nor lead was detected above their respective GWQS in the two air shaft samples.

Iron concentrations exceeded the GWQS of 500 µg/L in the unfiltered samples collected from both depth intervals in the air shaft. The iron concentrations were 152,000 µg/L and 158,000 µg/L. Manganese exceeded its GWQS in both unfiltered samples with concentrations of 2,680 µg/L and 2,580 µg/L. Both iron and manganese were detected at similar concentrations in the filtered samples.

Comparison with Historical Results

The October 2007 groundwater sampling event results are consistent with the sample results obtained during the April 2007 sampling event. Differences included an exceedance of bis(2-Ethylhexyl)phthalate at well OB-1, which is a background location for the Cannon Mine area, and a decrease in metals concentrations at OB-25. The surface at OB-1 is littered with construction debris and municipal-type rubbish that may explain the exceedances for bis(2-Ethylhexyl)phthalate at this background location.

Recent groundwater sampling results (2006 and 2007) are consistent with previous groundwater sampling which was conducted at the site from 1984 to 2004. The sampling results indicate that there is not a site-wide or extensive plume of impacted groundwater at the site. Detections of constituents of concern above guidance levels have been limited, and sporadic. Actual exceedances of NJDEP GWQS were few. Historical groundwater sampling results showing exceedances of NJDEP GWQS are presented in Table 6.

CONCLUSIONS

The following conclusions may be drawn based on the results of groundwater sampling conducted at the Site in October 2007.

Groundwater Flow

The depth to the water table is typically shallow near surface water bodies and is deeper at the northern end of the valley (Peters Mine). Water table conditions are observed in the saturated overburden and in shallow bedrock where the overburden cover is thin or not present.

Groundwater flow in the overburden (Peters Mine Pit Area and O'Connor Disposal Area) follows the major surface water drainage patterns with the flow directions to the southeast toward Ringwood Creek. Groundwater within the bedrock appears to flow toward Ringwood Creek (Peters Mine Pit Area) and toward both Mine Brook and Ringwood Creek (Cannon Mine Pit Area); directions that are similar to overburden groundwater flow.

Analytical Results

Shallow Groundwater (Overburden Wells)

Shallow groundwater is monitored by overburden wells in the Peters Mine Pit and O'Connor Disposal Area, and by shallow bedrock wells in the Cannon Mine area and St. George Pit/Miller Pit area.

Only low level detections of VOCs have been noted and they are primarily limited to the vicinity of Peters Mine Pit, with only benzene exceeding its NJDEP GWQS. There were no detections of PCBs in any of the groundwater samples collected from shallow groundwater monitoring wells.

Sporadic, low concentrations of the bis (2-Ethylhexyl)phthalate were detected at Peters Mine pit and the O'Connor Disposal Area, but as with other semi-volatile organics, none of the detections in the overburden wells exceeded GWQS.

Lead concentrations were above the NJDEP GWQS (5.0 µg/L) in two unfiltered samples collected from wells SC-1 and OB-21. Wells SC-1 and OB-21 are in the Peters Mine Pit Area.

Arsenic concentrations above the NJDEP GWQS of 3.0 µg/L were identified in unfiltered samples collected from OB-14A, OB-20A and OB-21. Arsenic was detected above the GWQS in the filtered sample from OB-14A. Arsenic detections and exceedances are localized to the vicinity of Peters Mine Pit and the O'Connor Disposal Area⁴, but arsenic was not detected in all shallow wells of the groundwater monitoring network in these locations. For example, arsenic was not detected in the sample collected from OB-10 downgradient of the Site.

Iron and manganese exceedances of the NJDEP GWQS were widespread, with elevated concentrations in most of the groundwater samples collected from the shallow groundwater monitoring wells.

Comparison of filtered to unfiltered overburden groundwater sample results shows that for metals other than iron, manganese and cations, detections in unfiltered samples are typically not detected in the filtered results. This indicates that these metals (aluminum, arsenic, barium, cadmium, chromium and lead) are not dissolved in groundwater but are associated with suspended solids (as a mineral or sorbed to colloidal particles).

Dissolved iron and manganese exceeded their respective GWQS in most of the filtered samples in overburden wells. Typically, where these exceedances occurred, 90% or more of the detected iron and manganese was in the dissolved state.

⁴ Mine tailings from historic mining activities were discarded in the Peters Mine Pit and the O'Connor Disposal Area, potentially accounting for the arsenic findings. The potential connection between arsenic and former mine tailings will be analyzed under the Mine Tailings/Background Soil Investigation Work Plan.

Because of the widespread presence of iron and manganese that exceeds their respective NJDEP GWQS in the vicinity of Peters Mine Pit and the O'Connor Disposal Area, shallow groundwater in overburden does not meet NJDEP's criteria for Class II-A classification.

Bedrock Wells

Shallow and deeper groundwater within bedrock is monitored by a network of wells in the Peters Mine Pit and O'Connor Disposal Area that are completed below the overburden within deeper bedrock, and by shallow and deeper bedrock wells in the Cannon Mine area and St. George Pit/Miller Pit area (saturated overburden is not present in these areas).

Detections of VOCs are limited to the vicinity of Peters Mine Pit, with only benzene exceeding its NJDEP GWQS in the samples collected from wells RW-5, RW-6, RW-6A and the air shaft. There were no SVOC detections above NJDEP GWQS, with the exception of bis-(2-ethylhexyl)phthalate, which was detected in the bedrock wells at various, but not all depth, intervals. The concentrations of bis-(2-ethylhexyl)phthalate ranged from <0.66 µg/L to 26.4 µg/L compared to its GWQS of 3.0 µg/L. There were no detections of PCBs in any of the groundwater samples collected from shallow or deeper bedrock groundwater monitoring wells.

Lead and arsenic were not detected above their respective NJDEP GWQS in any of the groundwater samples collected during this sampling event.

Iron and manganese exceedances of the NJDEP GWQS were widespread, with elevated concentrations in most of the groundwater samples collected from the shallow and deeper bedrock groundwater monitoring wells.

Comparison of filtered to unfiltered bedrock groundwater sample results shows that for metals other than iron, manganese and cations, detections in unfiltered samples are typically not detected in the filtered results. This indicates that these metals (aluminum, copper and lead) are not dissolved in groundwater but are suspended solids (as a mineral or sorbed to colloidal particles).

Because of the widespread presence of iron and manganese that exceeds their respective NJDEP GWQS, shallow and deeper groundwater in bedrock does not meet the NJDEP's criteria for Class II-A classification for potable water supply.

Detections of constituents of potential concern other than iron and manganese were sporadic and below NJDEP GWQS, with the exception of one bedrock well (RW-2) in the vicinity of the Cannon Mine Area and St. George/Miller Pit area. This well is affected by both sodium and chloride in intervals ranging from 19 to 472 ft bgs. Furthermore, groundwater in bedrock below the Borough of Ringwood Landfill, both shallow and deeper, contains elevated concentrations of sodium and alkalinity.

Present groundwater quality is consistent with historical patterns observed from 1984 through October 2007. Groundwater quality remains essentially unchanged from previous sampling events and constituents of concern are not present in the groundwater in any consistent pattern, or in high concentrations. Based on concentrations of iron and manganese in groundwater, water quality at the site is non-potable.

Groundwater at the site is not used for drinking water.

RECOMMENDATIONS

Based on the results of this groundwater sampling event and prior historical groundwater analytical results, Ford requests that:

1. the analytes monitored for in future events be reduced from the TCL to include limited VOCs and SVOCs (benzene, ethylbenzene, toluene, xylenes, isopropylbenzene, 1,1-dichloroethane, chloroethane and bis(2-ethylhexyl)phthalate), TAL metals, alkalinity, phosphorous, and chloride; and
2. that the packer sampling intervals at wells RW-2 and RW-4 be reduced as follows –
 - a. at RW-2 eliminate the 19-49 foot depth interval because the interval overlaps with the slotted casing interval with adjacent well OB-4 (the 4 deeper intervals will remain unchanged, however further recommendations may be made based on future results from the Cannon Mine Pit investigation); and
 - b. at RW-4 eliminate the 108-128 foot and 328-348 foot depth intervals because there have been no exceedances of the GWQS for the past 3 semi-annual sampling events (the 55-77 foot and 388-409 foot depth intervals will remain unchanged).

The next semi-annual groundwater sampling will be performed in April 2008 and will include sample collection at the Peters Mine air shaft.

Table 1. Summary Data for Monitoring Wells, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Old Well ID	Month/Year of Installation	Elevation Data		Location Data			Monitoring Well and Boring Data								
			Ground Surface (ft msl)	Protective Casing (ft msl)	Top of		Well Type	Diameter (inches)	Well Material	Open Hole or Screened Interval (ft bgs)				Total Depth (ft bgs)	Bottom Elevation (ft msl)	
					Northing (ft)	Easting (ft)										
OB-1	OB-1	Jul-84	542.6	544.4	39,190	7,294	BR	6	---	5 to 31	31	512	3	540		
OB-2	OB-2	Jul-84	561.4	562.3	37,821	7,508	BR	6	---	8 to 42	42	519	4	557		
OB-3	OB-3	Jul-84	495.6	496.5	37,840	7,275	BR	6	---	9 to 24	24	472	7	489		
OB-4	OB-4	Jul-84	510.6	510.8	37,889	8,348	BR	6	---	28 to 61	61	450	25	486		
OB-5	OB-5	Jul-84	457.9	458.8	37,607	8,634	BR	6	---	18 to 63	63	395	18 est.	440		
OB-6	OB-6	Jul-84	605.0	607.3	39,828	8,053	BR	6	---	10 to 36	36	569	8	597		
OB-7	OB-7	Jul-84	503.4	503.9	40,068	9,003	BR	6	---	14 to 42	42	461	11	492		
OB-8	OB-8	Jul-84	572.5	574.3	43,461	8,737	UC	4	PVC	7 to 17	23	550	18 est.	555		
OB-9*	OB-9*	Jul-84	507.6	508.6	41,191	9,759	UC	4	PVC	51 to 61	63	445	NE	---		
OB-10	OB-10	Jul-84	349.7	352.0	39,683	12,200	UC	4	PVC	10 to 20	20	330	NE	---		
RW-1	RW-1	Jul-84	549.0	550.4	39,232	7,351	BR	6	---	4 to 150	150	399	4	545		
RW-2	RW-2	Jul-84	512.8	513.2	37,914	8,312	BR	6	---	14 to 503	503	10	6	507		
OB-11*	OB-11*	Sep-84	529.6	530.3	42,601	9,614	UC	4	PVC	14 to 24	25	505	NE	---		
RW-3	RW-3	Sep-84	528.2	529.3	42,644	9,760	BR	6	---	58 to 100	100	428	58	470		
RW-4	RW-4	Sep-84	539.9	541.1	42,802	10,344	BR	6	---	60 to 543	543	-3	54	486		

See last page for notes.

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Well ID	Old Well ID	Month/Year of Installation	Elevation Data		Location Data			Monitoring Well and Boring Data								
			Ground Surface (ft msl)	Protective Casing (ft msl)	Top of		Well Type	Diameter (inches)	Well Material	Open Hole or Screened Interval (ft bgs)		Total Depth (ft bgs)	Bottom Elevation (ft msl)	Depth to Bedrock (ft bgs)	Bedrock Elevation (ft msl)	
					Northing (ft)	Easting (ft)										
OB-12	OB-12	Mar-86	557.6	558.4	37,360	7,685	BR	6	---	9 to 40	40	518	6	552		
OB-13	OB-13	Mar-86	499.1	500.4	37,180	8,195	BR	6	---	8 to 60	60	439	5	494		
OB-14A	OB-14A	Mar-86	500.8	501.4	41,855	10,070	UC	4	SS	4 to 14	20	481	NE	---		
OB-14B	OB-14B	Mar-86	503.1	504.1	41,830	10,045	UC	4	SS	25 to 35	40	463	NE	---		
OB-15A**	OB-15A**	Mar-86	515.0	515.8	42,520	9,990	UC	4	SS	2 to 12	20	495	NE	---		
OB-15B	OB-15B	Mar-86	514.7	516.0	42,525	9,999	UC	4	SS	25 to 35	40	475	NE	---		
OB-16	OB-16	Nov-91	488.6	492.3	41,525	10,020	UC	4	SS	5 to 15	14.5	474	NE	---		
OB-17	OB-17	Nov-91	486.8	490.3	41,327	10,009	UC	4	SS	3 to 13	13	474	NE	---		
OB-18	OB-18	Nov-91	494.6	496.3	41,183	9,965	UC	4	SS	10 to 20	20	475	NE	---		
OB-19	MW-19 OB	Mar-06	530.7	532.4	842,739	555,930	UC	2	PVC	5 to 20	24	506.7	NE	---		
OB-20A	MW-20 OB	Mar-06	532.1	533.7	842,589	555,816	UC	2	PVC	5 to 20	22	510.1	NE	---		
OB-20B	MW-20 OB-34	Mar-06	532.1	534.0	842,575	555,812	UC	2	PVC	24 to 34	35	497.1	NE	---		
OB-21	MW-21 OB	Mar-06	537.7	539.5	842,790	555,570	UC	2	PVC	6 to 21	22	515.7	NE	---		
RW-5	MW-19 BR	Mar-06	530.3	533.5	842,748	555,928	BR	2	S/PVC	38 to 120	120	410.3	28	502.3		
RW-6	MW-20 BR	Mar-06	531.9	534.0	842,583	555,819	BR	2	S/PVC	47 to 120	120	411.9	36	495.9		
RW-7	MW-21 BR	Mar-06	537.6	539.4	842,793	555,573	BR	2	S/PVC	32 to 120	120	417.6	22	515.6		
OB-22 [†]	OB-19	Oct-06	515.5	518.4	841,207	556,108	UC	2	PVC	10 to 20	20	495.5	NE	---		
OB-23 [†]	OB-20	Oct-06	512.8	515.7	841,571	556,225	UC	2	PVC	10 to 20	20	492.8	NE	---		
OB-24 [†]	OB-21	Oct-06	498.0	500.9	841,911	556,256	UC	2	PVC	5 to 15	15	483.0	NE	---		
OB-25 [†]	OB-22	Oct-06	527.3	527.3	841,978	555,959	UC	2	PVC	10 to 20	20	507.3	NE	---		
SC-1 [‡]	DB-1	Mar-06	530.9	532.53	842,621	555,819	PF	2	PVC	65 to 72	97.6	433.3	93.7	437.2		
RW-5A		Sep-07	530.7	533.26	842,737	555,957	BR	2	S/PVC	54 to 74	75	456	30	500.7		
RW-6A		Sep-07	531.81	534.32	842,586	555,835	BR	2	S/PVC	58 to 78	78.6	453	38	493.81		

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Well ID	Old Well ID	Month/Year of Installation	Elevation Data		Location Data		Monitoring Well and Boring Data							
			Ground Surface (ft msl)	Top of Protective Casing (ft msl)	Northing (ft)	Easting (ft)	Well Type	Diameter (inches)	Well Material	Open Hole or Screened Interval (ft bgs)	Total Depth (ft bgs)	Bottom Elevation (ft msl)	Depth to Bedrock (ft bgs)	Bedrock Elevation (ft msl)

Notes: Notes:

NE = not encountered.

BR = bedrock well.

UC = unconsolidated well.

PF = mine pit fill

PVC = polyvinyl chloride.

SS = stainless steel.

S = steel.

msl = mean sea level.

bgs = below ground surface.

est.- uncertain about bedrock depth and elevation.

* OB-9 was destroyed in October 1989 during land clearing and grading by a developer unrelated to remedial activities.

*OB-11 was destroyed during SR-3 Excavation Work 2006

** OB-15A, which was screened across paint sludge, was decommissioned in 1987 during the paint sludge removal work at Location A.

Northing and easting are based on a site-specific plane coordinate system.

† Elevation data, Ground surface (msl) not surveyed.

‡ Elevation data based on a directional well extending 97.6 ft bgs vertically(150ft inclined length).

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Table 2. Field Parameters at sampling time - Shallow wells (October 2007)

Well ID	Sampling date	Time	Minutes elapsed	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (°C)	Depth to Water (feet)	Diss. Oxygen (mg/L)
OB-1	10/9/2007	11:55	47	200	0.0	220.7	4.88	0.123	13.81	9.03	4.45
OB-2	10/8/2007	14:08	40	250	1.50	180.2	5.84	0.169	12.38	22.96	5.90
OB-3	10/8/2007	15:33	80	400	15.7	156.2	6.25	0.182	14.45	9.53	5.47
OB-4	10/9/2007	9:03	36	200	0.26	-21.7	6.47	0.627	14.71	18.79	6.55
OB-5	10/9/2007	9:37	49	300	1.87	-53.1	6.60	0.720	12.85	5.72	0.64
OB-6	10/9/2007	12:25	83	300	1.03	-14.3	6.48	0.492	16.37	2.34	0.54
OB-7	10/9/2007	15:49	42	300	1.70	9.3	6.70	0.639	10.86	6.05	4.10
OB-10	10/12/2007	14:17	65	200	0.81	146.2	6.26	0.163	14.97	5.81	0.34
OB-12	10/8/2007	10:28	42	300	0.04	260.9	5.69	0.105	11.04	17.60	4.75
OB-13	10/8/2007	11:35	47	250	0.18	208.0	6.32	0.209	13.53	23.85	7.22
OB-14A	10/11/2007	9:36	56	200	6.51	-46.5	6.36	0.851	14.99	13.15	0.19
OB-14B	10/11/2007	10:07	60	200	0.34	-22.4	6.99	0.765	13.43	15.35	6.20
OB-15B	10/16/2007	11:47	68	300	22.5	-84.4	8.27	0.191	13.45	11.38	0.28
OB-16	10/10/2007	13:28	58	200	4.83	-51.0	6.54	0.886	14.58	7.22	0.27
OB-17	10/10/2007	10:22	62	200	3.24	14.6	6.49	0.964	15.14	8.51	0.43
OB-18	10/10/2007	9:57	43	200	-1.14	170.0	6.72	0.270	13.18	12.51	5.50
OB-19	10/15/2007	13:47	44	300	22.5	-52.7	6.60	0.233	13.90	13.00	6.22
OB-20A	10/11/2007	14:49	94	200	38.5	-75.1	6.50	0.324	12.64	17.11	1.20
OB-20B	10/11/2007	13:53	38	200	22.9	-51.7	6.34	0.477	11.47	16.88	0.35
OB-21	10/15/2007	10:01	106	200	1905.0	239.8	5.19	0.161	13.19	***	3.15
OB-22	DRY										
OB-23	DRY										
OB-24	1/12/2007	10:43	72	300	2.72	17.8	7.31	0.781	12.98	6.36	0.41
OB-25	10/12/2007	9:15	45	40	44.9	142	6.96	0.333	14.23	12.25	6.96
SC-1	10/16/2007	9:17	53	250	3.8	-42.3	6.05	0.403	11.41	16.20	0.26

*** Data not recorded

Table 2. Field Parameters at sampling time - Deep wells (October 2007)

Well ID	Interval (fbgs)	Sampling date	Time	Minutes elapsed	Rate gpm	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (°C)	Depth to Water (feet)	Diss. Oxygen (mg/L)
RW-1	10-30	10/9/2007	13:52	70	5	65.0	168.0	7.23	0.116	14.87	13.22	2.14
RW-1	58-79	10/10/2007	8:29	35	5	0.5	257.3	6.93	0.183	12.07	13.22	4.12
RW-1	97-118	10/10/2007	9:43	35	5	1.6	269.2	7.08	0.199	12.07	13.22	5.18
RW-1	125-146	10/10/2007	11:16	28	5	2.2	94.7	7.68	0.198	11.76	13.22	2.64
RW-2	19-49	10/15/2007	10:53	45	3.5	5.3	191.6	6.07	1.075	15.42	10.68	10.00
RW-2	102-133	10/15/2007	14:41	198	1.5	2.6	109.2	6.96	1.247	19.46	10.68	5.7
RW-2	161-192	10/16/2007	10:36	153	1.75	13.0	198.1	6.74	0.922	15.25	10.68	9.37
RW-2	278-309	10/10/2007	14:43	86	1	14.0	106.4	6.44	1.145	17.00	10.68	4.58
RW-2	441-472	10/17/2007	9:37	101	1.5	6.3	45.2	6.83	1.112	12.99	10.68	7.61
RW-3	62-98	10/12/2007	10:21	50	1	55	7.2	7.15	0.374	12.24	15.69	4.84
RW-4	56-77	10/11/2007	8:10	18	0.5	7.6	235.5	6.79	1.114	13.61	33.11	2.44
RW-4	108-129	10/11/2007	9:37	47	3.5	5.8	174.5	6.73	0.135	12.69	33.11	6.72
RW-4	328-349	10/11/2007	11:44	52	3	6.8	120.1	6.52	0.124	12.02	33.11	8.78
RW-4	388-409	10/11/2007	13:41	32	1.5	20.0	119.9	6.56	0.117	11.77	33.11	8.37
RW-5	119-120	10/15/2007	12:26	51	300	2.7	-92.3	7.08	0.593	10.61	15.21	4.66
RW-5A	58-78	10/15/2007	12:01	51	100	47.9	178.9	7.79	0.258	10.84	18.60	3.87
RW-6	119-120	10/10/2007	16:01	53	350	0.07	-27.6	6.17	***	10.64	14.02	0.76
RW-6A	54-74	10/16/2007	9:07	47	300	3.18	-27.9	6.36	0.693	10.83	15.11	3.24
RW-7	119-120	10/15/2007	9:25	81	300	17.2	174.5	6.90	0.134	10.86	6.30	8.45

Field Parameters at sampling time - Peters Mine Air Shaft (October 2007)

Well ID	Interval (fbgs)	Sampling date	Time	Minutes elapsed	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (°C)	Diss. Oxygen (mg/L)
PMAir Shaft	180	10/15/2007	10:23	55	800	3.48	-51.2	6.42	1.112	11.51	4.49
PMAir Shaft	230	10/15/2007	9:17	59	700	7.2	-58.6	6.36	1.122	11.44	4.03

*** Data not recorded

Table 3. Summary of Water Level Measurements, October 2007 Ringwood Mines / Landfill Site, Ringwood, New Jersey

WELL ID	Date Measured	Measuring Point Elevation (Ft. amsl)	Depth to Water (Ft. below TOC)	Groundwater Elevation (Ft. amsl)
OB-1	10/17/2007	544.40	7.83	536.57
OB-2	10/17/2007	562.30	20.82	541.48
OB-3	10/17/2007	500.01	7.09	492.92
OB-4	10/17/2007	510.80	18.01	492.79
OB-5	10/17/2007	458.80	4.2	454.60
OB-6	10/17/2007	607.30	2.05	605.25
OB-7	10/17/2007	503.90	4.9	499.00
OB-8	--	destroyed	--	--
OB-9	--	destroyed	--	--
OB-10	10/17/2007	352.00	6.06	345.94
OB-11	--	destroyed	--	--
OB-12	10/17/2007	558.40	18	540.40
OB-13	10/17/2007	500.40	21.45	478.95
OB-14A	10/17/2007	501.40	11.95	489.45
OB-14B	10/17/2007	504.10	14.12	489.98
OB-15A	--	destroyed	--	--
OB-15B	10/18/2007	516.00	8.24	507.76
OB-16	10/17/2007	492.30	6.8	485.50
OB-17	10/17/2007	490.30	6.19	484.11
OB-18	10/17/2007	496.30	7.2	489.10
OB-19	10/17/2007	532.39	12.96	519.43
OB-20A	10/17/2007	533.65	15.68	517.97
OB-20B	10/17/2007	533.95	15.73	518.22
OB-21	10/17/2007	539.46	9.53	529.93
OB-22	10/17/2007	518.36	dry	496.54*
OB-23	10/17/2007	515.65	dry	493.32*
OB-24	10/17/2007	500.89	6.3	494.59
OB-25	10/17/2007	527.31	11.42	515.89
SC-1**	10/16/2007	532.53	10.54	521.99
RW-1	10/17/2007	550.40	12.38	538.02
RW-2	10/17/2007	513.20	20.08	493.12
RW-3	10/17/2007	529.30	15.72	513.58
RW-4	10/17/2007	541.10	32.75	508.35
RW-5	10/17/2007	533.19	13.21	519.98
RW-5A	10/15/2007	533.26	10.95	522.31
RW-6	10/17/2007	533.72	13.75	519.97
RW-6A	10/17/2007	534.32	14.43	519.89
RW-7	10/17/2007	539.02	6.41	532.61

Notes:

- ft. feet
 amsl average mean sea level
 * assumed gw elevation
 ** DTW corrected for well incline (Measured DTW x 0.6506)
 -- not applicable

Table 4. Bedrock Wells Sampling Intervals, October 2007 Groundwater Sampling Event, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well No.	Depth (feet)	Open Hole Interval (feet)	Sampling Depth (feet)
RW-1	150	4 to 150	10-31 58 - 79 97 - 118 125 - 146
RW-2	503	14 to 503	19-50 102 - 133 161 - 192 278 – 309 441 - 472
RW-3	100	58 to 100	62-98
RW-4	543	60 to 543	56-77 108 - 129 328-349 388-409

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location Sample Name	GWQS ¹	Groundwater Samples											
		OB-1	OB-2	OB-3	OB-4	OB-5	OB-6	OB-7	OB-10	OB-12	OB-13	OB-14A	OB-14A DUP
		10/9/2007 Final	10/8/2007 Final	10/8/2007 Final	10/9/2007 Final	10/9/2007 Final	10/9/2007 Final	10/9/2007 Final	10/12/2007 Final	10/8/2007 Final	10/8/2007 Final	10/11/2007 Final	10/11/2007 Final
VOCs													
1,1,1-Trichloroethane	30	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2,2-Tetrachloroethane	1	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichloroethane	3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
1,1-Dichloroethane	50	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	1	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	9	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*
1,2-Dibromoethane	0.03 [0.5]	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*
1,2-Dichlorobenzene	600	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	2	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-Dichloropropane	1	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,3-Dichlorobenzene	600	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,4-Dichlorobenzene	75	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
2-Butanone (MEK)	300	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
2-Hexanone	NS	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94
4-methyl-2-pentanone (MIBK)	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Acetone	6000	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Benzene	1	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Bromodichloromethane	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Bromoform	4	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Bromomethane	10	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Carbon disulfide	700	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Carbon tetrachloride	1	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	50	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chloroethane	NS	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
Chloroform	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chloromethane	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,2-Dichloroethene	70	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
cis-1,3-Dichloropropene	NS	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Cyclohexane	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
Dibromochloromethane	1	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Dichlorodifluoromethane	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Isopropylbenzene	700	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Methyl acetate	7000	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Methyl tert butyl ether	70	< 0.2	< 0.2	< 0.2	< 0.2	5.3	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.62 J	0.56 J
Methylcyclohexane	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methylene chloride	3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
o-Xylene	NS	< 0.2	< 0.2	< 0.2	< 0								

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location	Sample Name	GWQS ¹	Groundwater Samples												
			OB-1 10/9/2007 Final	OB-2 10/8/2007 Final	OB-3 10/8/2007 Final	OB-4 10/9/2007 Final	OB-5 10/9/2007 Final	OB-6 10/9/2007 Final	OB-7 10/9/2007 Final	OB-10 10/12/2007 Final	OB-12 10/8/2007 Final	OB-13 10/8/2007 Final	OB-14A 10/11/2007 Final	OB-14A DUP 10/11/2007 Final	OB-14B 10/11/2007 Final
	SVOCs														
	1,1'-Biphenyl	400	< 0.34	< 0.36	< 0.35	< 0.38 J	< 0.33	< 0.33	< 0.34	< 0.33	< 0.36	< 0.33	< 0.33	< 0.33	< 0.39
	2,4,5-Trichlorophenol	700	< 2	< 2.1	< 2.1	< 2.3 J	< 1.9	< 1.9	< 2	< 1.9	< 2.1	< 1.9	< 1.9	< 1.9	< 2.3
	2,4,6-Trichlorophenol	20	< 1.3	< 1.4	< 1.4	< 1.5 J	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3	< 1.5
	2,4-Dichlorophenol	20	< 1.6	< 1.7	< 1.7	< 1.8 J	< 1.6	< 1.6	< 1.6	< 1.6	< 1.7	< 1.6	< 1.6	< 1.6	< 1.9
	2,4-Dimethylphenol	100	< 1.7	< 1.8	< 1.8	< 1.9 J	< 1.6	< 1.6	< 1.7	< 1.6	< 1.8	< 1.6	< 1.6	< 1.6	< 2
	2,4-Dinitrophenol	40	< 0.94	< 0.99	< 0.96	< 1 J	< 0.89	< 0.89	< 0.93	< 0.89	< 0.99	< 0.89	< 0.89	< 0.89	< 1.1
	2,4-Dinitrotoluene	NS	< 0.91	< 0.96	< 0.92	< 1 J	< 0.86	< 0.86	< 0.9	< 0.86	< 0.96	< 0.86	< 0.86	< 0.86	< 1
	2,6-Dinitrotoluene	NS	< 0.59	< 0.62	< 0.6	< 0.66 J	< 0.56	< 0.56	< 0.58	< 0.56	< 0.62	< 0.56	< 0.56	< 0.56	< 0.67
	2-Chloronaphthalene	600	< 1	< 1.1	< 1.1	< 1.2 J	< 0.98	< 0.98	< 1	< 0.98	< 1.1	< 0.98	< 0.98	< 0.98	< 1.2
	2-Chlorophenol	40	< 1	< 1.1	< 1	< 1.1 J	< 0.95	< 0.95	< 0.99	< 0.95	< 1.1	< 0.95	< 0.95	< 0.95	< 1.1
	2-Methylnaphthalene	NS	< 0.43	< 0.45	< 0.44	< 0.48 J	< 0.41	< 0.41	< 0.43	< 0.41	< 0.45	< 0.41	< 0.41	< 0.41	< 0.49
	2-Methylphenol	NS	< 1.4	< 1.5	< 1.5	< 1.6 J	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4	< 1.6
	2-Nitroaniline	NS	< 0.7	< 0.74	< 0.71	< 0.78 J	< 0.66	< 0.66	< 0.69	< 0.66	< 0.74	< 0.66	< 0.66	< 0.66	< 0.79
	2-Nitrophenol	NS	< 1.9	< 2	< 1.9	< 2.1 J	< 1.8	< 1.8	< 1.9	< 1.8	< 2	< 1.8	< 1.8	< 1.8	< 2.2
	3&4-Methylphenol	NS	< 1.3	< 1.4	< 1.4	< 1.5 J	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3	< 1.5
	3,3'-Dichlorobenzidine	30	< 1.3	< 1.4	< 1.3	< 1.4 J	< 1.2	< 1.2	< 1.3	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2	< 1.5
	3-Nitroaniline	NS	< 1.3	< 1.4	< 1.4	< 1.5 J	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3	< 1.5
	4,6-Dinitro-2-methylphenol	NS	< 0.76	< 0.8	< 0.78	< 0.85 J	< 0.72	< 0.72	< 0.75	< 0.72	< 0.8	< 0.72	< 0.72	< 0.72	< 0.86
	4-Bromophenyl phenyl ether	NS	< 0.31	< 0.33	< 0.32	< 0.35 J	< 0.3	< 0.3	< 0.31	< 0.3	< 0.33	< 0.3	< 0.3	< 0.3	< 0.36
	4-Chloro-3-Methylphenol	NS	< 1.2	< 1.3	< 1.3	< 1.4 J	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.4
	4-Chloroaniline	30	< 0.42	< 0.44	< 0.43	< 0.47 J	< 0.4	< 0.4	< 0.41	< 0.4	< 0.44	< 0.4	< 0.4	< 0.4	< 0.47
	4-Chlorophenyl phenyl ether	NS	< 0.45	< 0.48	< 0.46	< 0.51 J	< 0.43	< 0.43	< 0.45	< 0.43	< 0.48	< 0.43	< 0.43	< 0.43	< 0.51
	4-Nitroaniline	NS	< 0.76	< 0.8	< 0.78	< 0.85 J	< 0.72	< 0.72	< 0.75	< 0.72	< 0.8	< 0.72	< 0.72	< 0.72	< 0.86
	4-Nitrophenol	NS	< 0.89	< 0.94	< 0.91	< 0.99 J	< 0.84	< 0.84	< 0.88	< 0.84	< 0.94	< 0.84	< 0.84	< 0.84	< 1
	Acetophenone	700	< 0.39	< 0.42	< 0.4	< 0.44 J	< 0.37	< 0.37	< 0.39	< 0.37	< 0.42	< 0.37	< 0.37	< 0.37	< 0.45
	Atrazine	3	< 0.17	< 0.18	< 0.18	< 0.19 J	< 0.16	< 0.16	< 0.17	< 0.16	< 0.18	< 0.16	< 0.16	< 0.16	< 0.19
	Benzaldehyde	NS	< 0.28 R	< 0.29	< 0.28	< 0.31 JR	< 0.27 R	< 0.27 R	< 0.28 R	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.32
	Benzyl butyl phthalate	100	< 0.62	< 0.66	< 0.64	< 0.7 J	< 0.59	< 0.59	< 0.62	< 0.59	< 0.66	< 0.59	< 0.59	< 0.59	< 0.71
	bis(2-Chloroethoxy)methane	NS	< 0.69	< 0.73	< 0.7	< 0.77 J	< 0.65	< 0.65	< 0.68	< 0.65	< 0.73	< 0.65	< 0.65	< 0.65	< 0.78
	bis(2-Chloroethyl)ether	7	< 0.56	< 0.59	< 0.57	< 0.62 J	< 0.53	< 0.53	< 0.55	< 0.53	< 0.59	< 0.53	< 0.53	< 0.53	< 0.63
	bis(2-Chloroisopropyl)ether	300	< 0.78	< 0.82	< 0.79	< 0.87 J	< 0.74	< 0.74	< 0.77	< 0.74	< 0.82	< 0.74	< 0.74	< 0.74	< 0.88
	bis(2-Ethylhexyl)phthalate	3	<u>4.3</u>	< 0.73	< 0.71	< 0.78 J	< 0.66	< 0.66	< 0.69	< 0.66	< 0.73	< 0.66	1.4 J	< 0.66	< 0.79
	Caprolactam	NS	< 0.33	< 0.35	< 0.34	< 0.37 J	< 0.32	< 0.32	< 0.33	< 0.32	< 0.35	< 0.32	< 0.32	< 0.32	< 0.38
	Carbazole	NS	< 0.38	< 0.4	< 0.39	< 0.43 J	< 0.36	< 0.36	< 0.38	< 0.36	< 0.4	< 0.36	0.78 J	< 0.36	< 0.43
	Dibenzofuran	NS	< 0.36	< 0.38	< 0.37	< 0.4 J	< 0.34	< 0.34	< 0.36	< 0.34	< 0.38	< 0.34	< 0.34	< 0.34	< 0.41
	Diethyl phthalate	6000	< 0.41	< 0.43	< 0.42	< 0.46 J	< 0.39	< 0.39	< 0.41	< 0.39	< 0.43	< 0.39	< 0.39	< 0.39	< 0.46
	Dimethyl phthalate	NS	< 0.35	< 0.36	< 0.35										

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location	Sample Name	Groundwater Samples												
		OB-1	OB-2	OB-3	OB-4	OB-5	OB-6	OB-7	OB-10	OB-12	OB-13	OB-14A	OB-14A DUP	OB-14B
Sample Date	GWQS ¹	10/9/2007	10/8/2007	10/8/2007	10/9/2007	10/9/2007	10/9/2007	10/9/2007	10/12/2007	10/8/2007	10/8/2007	10/11/2007	10/11/2007	10/11/2007
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOCs BY SIM														
Acenaphthene	400	< 0.018	< 0.019	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.017	< 0.019	< 0.017	< 0.017	< 0.017	< 0.02
Acenaphthylene	NS	< 0.01	< 0.011	< 0.01	< 0.01	< 0.0095	< 0.0095	< 0.0099	< 0.0095	< 0.011	< 0.0095	< 0.0095	< 0.0095	< 0.011
Anthracene	2000	< 0.022	< 0.023	< 0.022	< 0.022	< 0.021	< 0.021	< 0.022	< 0.021	< 0.023	< 0.021	< 0.021	< 0.021	< 0.025
Benzo(a)anthracene	0.1 [0.2]	< 0.0072	< 0.0076	< 0.0073	< 0.0072	< 0.0068	< 0.0068	< 0.0071	< 0.0068	< 0.0076	< 0.0068	< 0.0068	< 0.0068	< 0.0081
Benzo(a)pyrene	0.1 [0.2]	< 0.018	< 0.019	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.017	< 0.019	< 0.017	< 0.017	< 0.017	< 0.02
Benzo(b)fluoranthene	0.2 [10]	< 0.038	< 0.04	< 0.039	< 0.038	< 0.036	< 0.036	< 0.038	< 0.036	< 0.04	< 0.036	< 0.036	< 0.036	< 0.043
Benzo(g,h,i)perylene	NS	< 0.019	< 0.02	< 0.019	< 0.019	< 0.018	< 0.018	< 0.019	< 0.018	< 0.02	< 0.018	< 0.018	< 0.018	< 0.021
Benzo(k)fluoranthene	0.5	< 0.017	< 0.017	< 0.017	< 0.017	< 0.016	< 0.016	< 0.016	< 0.017	< 0.017	< 0.016	< 0.016	< 0.016	< 0.019
Chrysene	5	< 0.018	< 0.019	< 0.018	< 0.018	< 0.017	< 0.017	< 0.017	< 0.017	< 0.019	< 0.017	< 0.017	< 0.017	< 0.02
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.017	< 0.018	< 0.018	< 0.017	< 0.016	< 0.016	< 0.017	< 0.016	< 0.018	< 0.016	< 0.016	< 0.016	< 0.02
Fluoranthene	300	< 0.0095	< 0.01	< 0.0097	< 0.0095	< 0.009	< 0.009	< 0.0094	< 0.009	< 0.01	< 0.009	< 0.009	< 0.009	< 0.011
Fluorene	300	< 0.021	< 0.022	< 0.022	< 0.021	< 0.02	< 0.02	< 0.021	< 0.02	< 0.022	< 0.02	< 0.02	< 0.02	< 0.024
Hexachlorobenzene	0.02 [10]	< 0.021*	< 0.022*	< 0.022*	< 0.021*	< 0.02	< 0.02	< 0.021*	< 0.02	< 0.022*	< 0.02	< 0.02	< 0.02	< 0.024*
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.012	< 0.012	< 0.012	< 0.011	< 0.011	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011	< 0.013
Naphthalene	300	< 0.027	< 0.029	< 0.028	< 0.027	< 0.026	< 0.026	< 0.027	< 0.026	< 0.029	< 0.026	< 0.026	< 0.026	< 0.031
Pentachlorophenol	0.3 [1]	< 0.32* R	< 0.33* R	< 0.32* R	< 0.3 R	< 0.3 R	< 0.31* R	< 0.3	< 0.33* R	< 0.3 R	< 0.3 R	< 0.3 R	< 0.3 R	< 0.36* R
Phenanthrene	NS	< 0.022	< 0.023	< 0.023	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022	< 0.023	< 0.021	< 0.021	< 0.021	< 0.025
Pyrene	200	< 0.015	< 0.016	< 0.015	< 0.014	< 0.014	< 0.014	< 0.015	< 0.014	< 0.016	< 0.014	< 0.014	< 0.014	< 0.017
PCBs														
PCB 1016	0.5	< 0.094	< 0.1	< 0.1	< 0.1	< 0.094	< 0.1	< 0.094	< 0.1	< 0.099	< 0.099	< 0.094	< 0.094	< 0.11
PCB 1221	0.5	< 0.47	< 0.51	< 0.5	< 0.52	< 0.51	< 0.47	< 0.52	< 0.47	< 0.52	< 0.49	< 0.49	< 0.47	< 0.53
PCB 1232	0.5	< 0.39	< 0.42	< 0.41	< 0.43	< 0.42	< 0.39	< 0.43	< 0.39	< 0.43	< 0.41	< 0.41	< 0.39	< 0.44
PCB 1242	0.5	< 0.16	< 0.18	< 0.17	< 0.18	< 0.18	< 0.16	< 0.18	< 0.16	< 0.18	< 0.17	< 0.17	< 0.16	< 0.18
PCB 1248	0.5	< 0.15	< 0.16	< 0.16	< 0.17	< 0.16	< 0.15	< 0.17	< 0.15	< 0.17	< 0.16	< 0.16	< 0.15	< 0.17
PCB 1254	0.5	< 0.11	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12
PCB 1260	0.5	< 0.12	< 0.13	< 0.12	< 0.13	< 0.13	< 0.12	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	< 0.13
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals - Total														
Aluminum	200	55.6 B	56.1 B	< 26	< 26	< 26	< 26	< 26	28.7 B	< 26	< 26	< 26	< 26	35.3 B
Antimony	6	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 5.7	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Arsenic	3 [8]	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	23.1	21.6	2.8 B
Barium	2000	6.1 B	6.8 B	5.2 B	44.1 B	21 B	27.8 B	18.8 B	10.4 B	4.8 B	11.6 B	482	474	38.3 B
Beryllium	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cadmium	4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Calcium	NS	13300	17400	18600	41400	87400	39800	80000	18900	9460	21100	141000	137000	94300
Chromium	70	< 0.53	< 0.53	< 0.53	< 0.53	0.7 B	< 0.53	0.6 B	< 0.53	< 0.53	&			

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location Sample Name	GWQS ¹	Groundwater Samples												
		OB-1 10/9/2007 Final	OB-2 10/8/2007 Final	OB-3 10/8/2007 Final	OB-4 10/9/2007 Final	OB-5 10/9/2007 Final	OB-6 10/9/2007 Final	OB-7 10/9/2007 Final	OB-10 10/12/2007 Final	OB-12 10/8/2007 Final	OB-13 10/8/2007 Final	OB-14A 10/11/2007 Final	OB-14A DUP 10/11/2007 Final	OB-14B 10/11/2007 Final
		Sample Date	Validation Status											
Metals - Dissolved														
Aluminum	200	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	
Antimony	6	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 5.7	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	
Arsenic	3 [8]	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	5.6	5	1.6 B	
Barium	2000	5.2 B	8.8 B	6.3 B	44 B	16.5 B	26.6 B	14.4 B	8.6 B	6.3 B	8.3 B	368	331	
Beryllium	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	
Cadmium	4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	
Calcium	NS	13200	17600	18500	43500	92700	39300	65800	18000	9220	20300	136000	141000	
Chromium	70	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	0.9 B	0.8 B	
Cobalt	NS	0.6 B	1.1 B	0.9 B	2.3 B	5 B	6.3 B	4.4 B	1 B	0.7 B	0.9 B	5.1 B	4.6 B	
Copper	1,300	3.8 B	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	7.7 B	< 3.3	< 3.3	< 3.3	
Iron	300	< 6.3	14.9 BJ	47.7 BJ	675	5100	219	30.5 BJ	< 6.3	20.5 BJ	< 6.3 J	39900	32400	
Lead	5	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	1.2 B	< 0.94	
Magnesium	NS	3270 BJ	5940	5220	12700 J	49100 J	9370 J	25800 J	5010	3590 B	7200	16000	16700	
Manganese	50	< 0.17	3.3 BJ	6.5 BJ	1870	1530	2830	2350	161	1.8 BJ	1.3 BJ	2710	2860	
Mercury	2	< 0.15	< 0.15	< 0.15	0.2 B	< 0.15	< 0.15	< 0.15	0.16 B	< 0.15	< 0.15	< 0.15	< 0.15	
Nickel	100	< 0.73	< 0.73	< 0.73	< 0.73	0.8 B	2.6 B	1.3 B	2.4 B	< 0.73	< 0.73	2.2 B	1.5 B	
Potassium	NS	706 B	1300 B	947 B	2430 B	3640 B	2580 B	2560 B	1350 B	465 B	1170 B	8280 B	8560 B	
Selenium	40	< 0.73	1.3 B	0.8 B	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	
Silver	40	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	
Sodium	50,000	2780 BJ	3920 B	3340 B	56200 J	24800 J	36700 J	9340 BJ	4150 B	2610 B	3440 B	24100	25500	
Thallium	2 [10]	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	1.9 B	< 1.4	< 1.4	
Vanadium	NS	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	
Zinc	2000	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7 J	< 2.7	< 2.7	< 2.7	< 2.7	
Other														
Alkalinity, total (as CaCO ₃)	NS	29700	53500	52500	104000	401000	99100	347000	67800	24400	64100	520000	478000	
Nitrogen, Nitrate + Nitrite	NS	< 100	2400	1200	< 100	230	< 100	< 100	< 100	< 100	490	< 100	< 100	
Phosphorus, Total	NS	< 50	< 50	< 50	120	61	< 50	< 50	< 50	< 50	98 J	260 J	< 50	
Chloride	250000	6000	< 2000	< 2000	121000	61700	88300	7500	3900	< 2000	2100	25300	25100	
Nitrate	10000	< 110	2400	1200	< 110	230	< 110	< 110	< 110	< 110	490	< 110	< 110	
Nitrogen, Nitrite	1,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Sulfate	250000	11200	17000	19100	19100	< 10000	14500	< 10000	< 10000	18400	22600	< 10000	< 10000	
Alkalinity, Bicarbonate	NS	29700	53500	52500	104000	401000	99100	346000	67800	24400	64100	520000	478000	
Alkalinity, Carbonate	NS	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	
Cyanide	100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	

**Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey**

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location	Sample Name	GWQS ¹	Groundwater Samples											
			OB-15B 10/16/2007 Final	OB-16 10/10/2007 Final	OB-17 10/10/2007 Final	OB-18 10/10/2007 Final	OB-19 10/15/2007 Final	OB-19 DUP 10/15/2007 Final	OB-20A 10/11/2007 Final	OB-20B 10/11/2007 Final	OB-21 10/15/2007 Final	OB-24 10/12/2007 Final	OB-25 10/12/2007 Final	RW1(10-31) 10/9/2007 Final
SVOCs														
1,1'-Biphenyl	400	< 0.22	< 0.33	< 0.36	< 0.37	< 0.33	< 0.23	< 0.33	< 0.36	< 0.36	< 0.33	< 0.36	< 0.36	< 0.36
2,4,5-Trichlorophenol	700	< 1.1	< 1.9	< 2.1	< 2.2	< 1.9	< 1.1	< 1.9	< 2.1	< 2.1	< 1.9	< 2.1	< 2.1	< 2.1
2,4,6-Trichlorophenol	20	< 1	< 1.3	< 1.4	< 1.4	< 1.3	< 1	< 1.3	< 1.4	< 1.4	< 1.3	< 1.4	< 1.4	< 1.4
2,4-Dichlorophenol	20	< 1.4	< 1.6	< 1.7	< 1.8	< 1.6	< 1.4	< 1.6	< 1.7	< 1.7	< 1.6	< 1.7	< 1.7	< 1.7
2,4-Dimethylphenol	100	< 1.7	< 1.6	< 1.8	< 1.8	< 1.6	< 1.7	< 1.6	< 1.8	< 1.8	< 1.6	< 1.8	< 1.8	< 1.8
2,4-Dinitrophenol	40	< 1.1	< 0.89	< 0.99	< 1	< 0.89	< 1.1	< 0.89	< 0.99	< 0.99	< 0.89	< 0.99	< 0.99	< 0.97
2,4-Dinitrotoluene	NS	< 0.54	< 0.86	< 0.96	< 0.97	< 0.86	< 0.56	< 0.86	< 0.96	< 0.96	< 0.86	< 0.96	< 0.93	< 0.93
2,6-Dinitrotoluene	NS	< 0.5	< 0.56	< 0.62	< 0.63	< 0.56	< 0.51	< 0.56	< 0.62	< 0.62	< 0.56	< 0.62	< 0.61	< 0.61
2-Chloronaphthalene	600	< 0.2	< 0.98	< 1.1	< 1.1	< 0.98	< 0.2	< 0.98	< 1.1	< 1.1	< 0.98	< 1.1	< 1.1	< 1.1
2-Chlorophenol	40	< 0.87	< 0.95	< 1.1	< 1.1	< 0.95	< 0.89	< 0.95	< 1.1	< 1.1	< 0.95	< 1.1	< 1	< 1
2-Methylnaphthalene	NS	< 0.76	< 0.41	< 0.45	< 0.46	< 0.41	< 0.78	< 0.41	< 0.45	< 0.45	< 0.41	< 0.45	< 0.45	< 0.44
2-Methylphenol	NS	< 1	< 1.4	< 1.5	< 1.5	< 1.4	< 1.1	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5	< 1.5
2-Nitroaniline	NS	< 0.5	< 0.66	< 0.74	< 0.74	< 0.66	< 0.51	< 0.66	< 0.74	< 0.74	< 0.66	< 0.74	< 0.74	< 0.72
2-Nitrophenol	NS	< 1.5	< 1.8	< 2	< 2	< 1.8	< 1.5	< 1.8	< 2	< 2	< 1.8	< 2	< 2	< 2
3&4-Methylphenol	NS	< 1.1	< 1.3	< 1.4	< 1.4	< 1.3	< 1.1	< 1.3	< 1.4	< 1.4	< 1.3	< 1.4	< 1.4	< 1.4
3,3'-Dichlorobenzidine	30	< 0.97	< 1.2	< 1.4	< 1.4	< 1.2	< 0.99	< 1.2	< 1.4	< 1.4	< 1.2	< 1.4	< 1.3	< 1.3
3-Nitroaniline	NS	< 0.32	< 1.3	< 1.4	< 1.4	< 1.3	< 0.33	< 1.3	< 1.4	< 1.4	< 1.3	< 1.4	< 1.4	< 1.4
4,6-Dinitro-2-methylphenol	NS	< 2.2	< 0.72	< 0.8	< 0.81	< 0.72	< 2.3	< 0.72	< 0.8	< 0.8	< 0.72	< 0.8	< 0.72	< 0.78
4-Bromophenyl phenyl ether	NS	< 0.37	< 0.3	< 0.33	< 0.34	< 0.3	< 0.38	< 0.3	< 0.33	< 0.33	< 0.3	< 0.33	< 0.33	< 0.33
4-Chloro-3-Methylphenol	NS	< 1.2	< 1.2	< 1.3	< 1.3	< 1.2	< 1.2	< 1.2	< 1.3	< 1.3	< 1.2	< 1.3	< 1.3	< 1.3
4-Chloroaniline	30	< 0.35	< 0.4	< 0.44	< 0.45	< 0.4	< 0.36	< 0.4	< 0.44	< 0.44	< 0.4	< 0.44	< 0.44	< 0.43
4-Chlorophenyl phenyl ether	NS	< 0.29	< 0.43	< 0.48	< 0.48	< 0.43	< 0.3	< 0.43	< 0.48	< 0.48	< 0.43	< 0.48	< 0.47	< 0.47
4-Nitroaniline	NS	< 0.59	< 0.72	< 0.8	< 0.81	< 0.72	< 0.6	< 0.72	< 0.8	< 0.8	< 0.72	< 0.8	< 0.78	< 0.78
4-Nitrophenol	NS	< 1.6	< 0.84	< 0.94	< 0.95	< 0.84	< 1.6	< 0.84	< 0.94	< 0.94	< 0.84	< 0.94	< 0.94	< 0.92
Acetophenone	700	< 0.36	< 0.37	< 0.42	< 0.42	< 0.37	< 0.37	< 0.37	< 0.42	< 0.42	< 0.37	< 0.42	< 0.42	< 0.41
Atrazine	3	< 0.28	< 0.16	< 0.18	< 0.18	< 0.16	< 0.29	< 0.16	< 0.18	< 0.18	< 0.16	< 0.18	< 0.18	< 0.18
Benzaldehyde	NS	< 0.76	< 0.27 R	< 0.29 R	< 0.3 R	< 0.27	< 0.78	< 0.27	< 0.29	< 0.29	< 0.27	< 0.29	< 0.29	< 0.29 R
Benzyl butyl phthalate	100	< 0.64	< 0.59	< 0.66	< 0.67	< 0.59	< 0.65	< 0.59	< 0.66	< 0.66	< 0.59	< 0.66	< 0.66	< 0.64
bis(2-Chloroethoxy)methane	NS	< 0.32	< 0.65	< 0.73	< 0.73	< 0.65	< 0.32	< 0.65	< 0.73	< 0.73	< 0.65	< 0.73	< 0.73	< 0.71
bis(2-Chloroethyl)ether	7	< 0.67	< 0.53	< 0.59	< 0.6	< 0.53	< 0.69	< 0.53	< 0.59	< 0.59	< 0.53	< 0.59	< 0.59	< 0.58
bis(2-Chloroisopropyl)ether	300	< 0.58	< 0.74	< 0.82	< 0.83	< 0.74	< 0.59	< 0.74	< 0.82	< 0.82	< 0.74	< 0.82	< 0.8	< 0.8
bis(2-Ethylhexyl)phthalate	3	< 0.88	< 0.66	< 0.73	< 0.74	< 0.66	< 0.9	1.1 J	< 0.73	< 0.73	< 0.66	< 0.73	< 0.73	<u>3.4</u>
Caprolactam	NS	< 0.49	< 0.32	< 0.35	< 0.35	< 0.32	< 0.5	< 0.32	< 0.35	< 0.35	< 0.32	< 0.35	< 0.35	< 0.34
Carbazole	NS	< 0.4	< 0.36	< 0.4	< 0.41	< 0.36	< 0.41	< 0.36	< 0.4	< 0.4	< 0.36	< 0.4	< 0.4	< 0.4
Dibenzofuran	NS	< 0.23	< 0.34	< 0.38	< 0.39	< 0.34	< 0.23	< 0.34	< 0.38	< 0.38	< 0.34	< 0.38	< 0.38	< 0.37
Diethyl phthalate	6000	< 0.34	< 0.39	< 0.43	< 0.44	< 0.39	< 0.35	< 0.39	< 0.43	< 0.43	< 0.39	< 0.43	< 0.43	< 0.42
Dimethyl phthalate	NS	< 0.34	< 0.33	< 0.36	< 0.37	< 0.33	< 0.34	< 0.33	< 0.36	< 0.36	< 0.33	< 0.36	< 0.36	< 0.36
di-n-butyl phthalate														

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location	Sample Name	Groundwater Samples											
		OB-15B GWQS ¹	OB-16 10/16/2007 Final	OB-17 10/10/2007 Final	OB-18 10/10/2007 Final	OB-19 10/15/2007 Final	OB-19 DUP 10/15/2007 Final	OB-20A 10/11/2007 Final	OB-20B 10/11/2007 Final	OB-21 10/15/2007 Final	OB-24 10/12/2007 Final	OB-25 10/12/2007 Final	RW1(10-31) 10/9/2007 Final
	SVOCs BY SIM												
	Acenaphthene	400	< 0.017	< 0.017	< 0.019	< 0.019	< 0.017	< 0.017	0.249	< 0.019	< 0.019	< 0.017	< 0.019
	Acenaphthylene	NS	< 0.0095	< 0.0095	< 0.011	< 0.011	< 0.0095	< 0.0095	< 0.011	< 0.011	< 0.0095	< 0.011	< 0.01
	Anthracene	2000	< 0.021	< 0.021	< 0.023	< 0.023	< 0.021	< 0.021	< 0.023	< 0.023	< 0.021	< 0.023	< 0.023
	Benzo(a)anthracene	0.1 [0.2]	< 0.0068	< 0.0068	< 0.0076	< 0.0076	< 0.0068	< 0.0069	< 0.0068	< 0.0076	< 0.0076	< 0.0076	< 0.0074
	Benzo(a)pyrene	0.1 [0.2]	< 0.017	< 0.017	< 0.019	< 0.019	< 0.017	< 0.017	< 0.017	< 0.019	< 0.019	< 0.017	< 0.018
	Benzo(b)fluoranthene	0.2 [10]	< 0.036	< 0.036	< 0.04	< 0.041	< 0.036	< 0.037	< 0.036	< 0.04	< 0.04	< 0.036	< 0.039
	Benzo(g,h,i)perylene	NS	< 0.018	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.018	< 0.02	< 0.02	< 0.018	< 0.019
	Benzo(k)fluoranthene	0.5	< 0.016	< 0.016	< 0.017	< 0.018	< 0.016	< 0.016	< 0.016	< 0.017	< 0.017	< 0.016	< 0.017
	Chrysene	5	< 0.017	< 0.017	< 0.019	< 0.019	< 0.017	< 0.017	< 0.017	< 0.019	< 0.019	< 0.017	< 0.018
	Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.016	< 0.016	< 0.018	< 0.018	< 0.016	< 0.017	< 0.016	< 0.018	< 0.016	< 0.018	< 0.018
	Fluoranthene	300	< 0.009	< 0.009	< 0.01	< 0.01	< 0.009	< 0.0092	< 0.009	< 0.01	< 0.01	< 0.009	< 0.01
	Fluorene	300	< 0.02	< 0.02	< 0.022	< 0.023	< 0.02	< 0.021	< 0.02	< 0.022	< 0.022	< 0.02	< 0.022
	Hexachlorobenzene	0.02 [10]	< 0.02	< 0.02	< 0.022*	< 0.022*	< 0.02	< 0.02	< 0.02	< 0.022*	< 0.022*	< 0.02	< 0.022*
	Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.011	< 0.011	< 0.012	< 0.012	< 0.011	< 0.011	< 0.012	< 0.012	< 0.011	< 0.012	< 0.012
	Naphthalene	300	< 0.026	< 0.026	< 0.029	< 0.029	< 0.026	< 0.026	0.275	1.02	< 0.029	< 0.026	< 0.028
	Pentachlorophenol	0.3 [1]	< 0.3	< 0.3	< 0.33*	< 0.34*	< 0.3	< 0.31*	< 0.3 R	< 0.33* R	< 0.33*	< 0.3	< 0.33* R
	Phenanthrene	NS	< 0.021	< 0.021	< 0.023	< 0.024	< 0.021	< 0.022	< 0.021	< 0.023	< 0.023	< 0.023	< 0.023
	Pyrene	200	< 0.014	< 0.014	< 0.016	< 0.016	< 0.014	< 0.014	< 0.014	< 0.016	< 0.014	< 0.016	< 0.015
	PCBs												
	PCB 1016	0.5	< 0.1	< 0.099	< 0.094	< 0.094	< 0.1	< 0.1	< 0.094	< 0.094	< 0.1	< 0.094	< 0.094
	PCB 1221	0.5	< 0.52	< 0.49	< 0.47	< 0.47	< 0.52	< 0.52	< 0.47	< 0.47	< 0.52	< 0.47	< 0.47
	PCB 1232	0.5	< 0.43	< 0.41	< 0.39	< 0.39	< 0.43	< 0.43	< 0.39	< 0.39	< 0.43	< 0.39	< 0.39
	PCB 1242	0.5	< 0.18	< 0.17	< 0.16	< 0.16	< 0.18	< 0.18	< 0.16	< 0.16	< 0.18	< 0.16	< 0.16
	PCB 1248	0.5	< 0.17	< 0.16	< 0.15	< 0.15	< 0.17	< 0.17	< 0.15	< 0.15	< 0.17	< 0.15	< 0.15
	PCB 1254	0.5	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.12	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11
	PCB 1260	0.5	< 0.13	< 0.12	< 0.12	< 0.12	< 0.13	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12
	Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0
	Metals - Total												
	Aluminum	200	104 B	< 26	< 26	262	137 B	153 B	2190	104 B	36300	< 26	1440
	Antimony	6	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 3	< 5.7	< 0.9
	Arsenic	3 [8]	< 1.1	8.8	2.5 B	< 1.1	1.9 B	1.8 B	18.6	1.2 B	9 B	1.9 B	1.1 B
	Barium	2000	12.6 B	87.7 B	15.1 B	8.6 B	60.6 B	52.5 B	103 B	68.5 B	209 B	37.9 B	21.2 B
	Beryllium	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	1.7 B	< 0.15	< 0.15
	Cadmium	4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.8	< 0.24	< 0.24
	Calcium	NS	24100 J	141000	98300	45500	17500	17200	35000	55900	22100	104000	23300
	Chromium	70	1.6 B	0.9 B	1.3 B	1.6 B	< 0.53 J	0.6 B	3.3 B	1.9 B	46	< 0.53	< 0.53
	Cobalt	NS	1.5 B	5.2 B	2.9 B	1.7 B	2 B	2.2 B	7.4 B	28.8 B	32 B	2.1 B	1.6 B
	Copper	1,300	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	4.1 B	< 3.3	< 3.3	274	< 3.3	26.9
	Iron	300	158 J	15400	3830	251	20000	20200	49600	34900	54600	< 6.3	942
	Lead	5	1 B	< 0.94	1.7 B	1.2 B	1.3 B	1 B	3	1.1 B	27	1.2 BJ	3.1
	Magnesium	NS	5890 J	20700	31100	9020	2980 B	2970 B	3890 B	11300	17100	26100	4430 B
	Manganese	50	675	3940	669	9.4 B	987 J	1150	5590	9120	2540	352	23.6
	Mercury	2	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.3	< 0.15	< 0.15
	Nickel	100	1.8 B	1.7 B	0.9 B	< 0.73	3 B	2.9 B	5				

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Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location	Sample Name	Groundwater Samples											
		OB-15B GWQS ¹	OB-16 10/16/2007 Final	OB-17 10/10/2007 Final	OB-18 10/10/2007 Final	OB-19 10/15/2007 Final	OB-19 DUP 10/15/2007 Final	OB-20A 10/11/2007 Final	OB-20B 10/11/2007 Final	OB-21 10/15/2007 Final	OB-24 10/12/2007 Final	OB-25 10/12/2007 Final	RW1(10-31) 10/9/2007 Final
Metals - Dissolved													
Aluminum	200	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	159 B	< 26	207	< 26
Antimony	6	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 5.7	< 5.7	< 0.9
Arsenic	3 [8]	< 1.1	3.6	< 1.1	< 1.1	< 1.1	< 1.1	2.4 B	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Barium	2000	4.2 B	69.6 B	13.4 B	7.7 B	45.5 B	47 B	64.9 B	47.2 B	9.9 B	37.5 B	17.3 B	14.1 B
Beryllium	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cadmium	4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Calcium	NS	23600 J	136000	95600	47900	16600	16600	33500	54400	16100	102000	25100	21100
Chromium	70	1.2 B	1.7 B	1 B	1.9 B	0.6 BJ	< 0.53	2.7 B	1.7 B	1 B	< 0.53	< 0.53	0.9 B
Cobalt	NS	1.4 B	4.6 B	3 B	1.6 B	1.9 B	1.9 B	5.1 B	27 B	1 B	2.3 B	1.3 B	1 B
Copper	1,300	< 3.3	< 3.3	3.5 B	< 3.3	3.3 B	< 3.3	< 3.3	< 3.3	4.7 B	< 3.3	11.6 B	3.3 B
Iron	300	12.8 BJ	5400	419	< 6.3	3940	4170	18600	11400	164 J	< 6.3	< 6.3	15.7 B
Lead	5	< 0.94	< 0.94	< 0.94	1 B	1.1 B	< 0.94	< 0.94	1 B	< 0.94	1.5 BJ	1.5 B	< 0.94
Magnesium	NS	5800 J	20200	30200	9340	2850 B	2840 B	3370 B	11000	5910	25500	4550 B	4720 BJ
Manganese	50	162	3830	610	< 0.17	1100 J	1070	5310	8970	24.3	333	9.1 B	13.9 B
Mercury	2	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Nickel	100	< 0.73	1.4 B	< 0.73	0.9 B	4 B	2 B	8.8 B	5.6 B	2.8 B	< 0.73	2.3 B	2.5 B
Potassium	NS	576 B	10400	887 B	380 B	1460 B	1430 B	2380 B	2610 B	1190 B	2400 B	7050 BJ	845 B
Selenium	40	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	0.9 BJ
Silver	40	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83
Sodium	50,000	4280 BJ	30400	16800	6490 B	3970 B	4000 B	3020 B	5540 B	3740 B	14600	28000 J	3840 BJ
Thallium	2 [10]	< 1.4	< 1.4	< 1.4	< 1.4	1.8 BJ	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Vanadium	NS	1 B	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	0.6 B	0.9 B	0.6 B	0.7 B
Zinc	2000	4 BJ	< 2.7	< 2.7	< 2.7	14.7 BJ	12.8 BJ	< 2.7	< 2.7	< 2.7	< 2.7 J	< 2.7	510 J
Other													
Alkalinity, total (as CaCO ₃)	NS	74700	488000	326000	157000	58800	58300	143000	207000	50900	265000	96500	63100
Nitrogen, Nitrate + Nitrite	NS	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	700	780	< 100
Phosphorus, Total	NS	1000	170	< 50	< 50	< 50	54	310	300	1800	< 50	69	110
Chloride	250000	< 2000	30300	6200	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	75000	18000	7700
Nitrate	10000	< 110	< 110	< 110	< 110	< 110	< 110	< 110	< 110	< 110	700	780	< 110
Nitrogen, Nitrite	1,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Sulfate	250000	15800	< 10000	41200	13900	< 10000	< 10000	< 10000	< 10000	11800	27800	30000	13600
Alkalinity, Bicarbonate	NS	187000	488000	326000	157000	58800	58300	143000	207000	50900	265000	96400	63000
Alkalinity, Carbonate	NS	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
Cyanide	100	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10 J	< 10	< 10	< 10	< 10	< 10

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location	Sample Name	Groundwater Samples														
		RW1(58-79)		RW1(97-118)		RW1(125-146)		RW2(19-50)		RW2(102-133)		RW2(161-192)		RW2(278-309)		RW-5 Final
		GWQS ¹	10/10/2007 Final	10/10/2007 Final	10/10/2007 Final	10/15/2007 Final	10/15/2007 Final	10/16/2007 Final	10/16/2007 Final	10/17/2007 Final	10/12/2007 Final	10/11/2007 Final	10/11/2007 Final	10/11/2007 Final	10/11/2007 Final	
Validation Status																
VOCs																
1,1,1-Trichloroethane	30	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	
1,1,2,2-Tetrachloroethane	1	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	
1,1,2-Trichloroethane	3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	
1,1-Dichloroethane	50	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.65 J	< 0.2	< 0.2	< 0.2	< 0.2	0.24 J	
1,1-Dichloroethene	1	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	
1,2,4-Trichlorobenzene	9	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	
1,2-Dibromoethane	0.03 [0.5]	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	
1,2-Dichlorobenzene	600	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	
1,2-Dichloroethane	2	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	
1,2-Dichloropropane	1	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	
1,3-Dichlorobenzene	600	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	
1,4-Dichlorobenzene	75	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	
2-Butanone (MEK)	300	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	
2-Hexanone	NS	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	
4-methyl-2-pentanone (MIBK)	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	
Acetone	6000	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	
Benzene	1	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	
Bromodichloromethane	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	
Bromoform	4	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	
Bromomethane	10	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	
Carbon disulfide	700	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	0.47 J	
Carbon tetrachloride	1	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19 JR	< 0.19 JR	< 0.19 JR	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	
Chlorobenzene	50	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	0.26 J	
Chloroethane	NS	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	24	
Chloroform	70	< 0.25	< 0.25	< 0.25	< 0.25	1.9	0.83 J	1.1	0.59 J	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	
Chloromethane	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	
cis-1,2-Dichloroethene	70	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	
cis-1,3-Dichloropropene	NS	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	
Cyclohexane	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	
Dibromochloromethane	1	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	
Dichlorodifluoromethane	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Ethylbenzene	700	< 0.														

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location	Sample Name	Groundwater Samples																								
		RW1(58-79)		RW1(97-118)		RW1(125-146)		RW2(19-50)		RW2(102-133)		RW2(161-192)		RW2(278-309)		RW2(441-472)		RW3(62-98)		RW4 (59-77)		RW4 (108-129)		RW4 (328-349)		RW4 (388-409)
Sample Date	Validation Status	GWQS ¹	10/10/2007 Final	10/10/2007 Final	10/10/2007 Final	10/15/2007 Final	10/15/2007 Final	10/16/2007 Final	10/16/2007 Final	10/17/2007 Final	10/17/2007 Final	10/12/2007 Final	10/12/2007 Final	10/11/2007 Final	10/11/2007 Final	10/11/2007 Final	10/11/2007 Final	10/11/2007 Final	10/11/2007 Final	10/15/2007 Final						
SVOCs																										
1,1'-Biphenyl		400	< 0.33	< 0.34	< 0.34	< 0.33	< 0.33	< 0.35	< 0.34	< 0.35	< 0.34	< 0.33	< 0.34	< 0.33	< 0.38	< 0.38	< 0.36	< 0.36	< 0.33							
2,4,5-Trichlorophenol		700	< 1.9	< 2	< 2	< 1.9	< 1.9	< 2.1	< 2	< 2.1	< 1.9	< 2	< 2	< 2	< 2.2	< 2.1	< 1.9	< 1.9	< 1.9							
2,4,6-Trichlorophenol		20	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.5	< 1.5	< 1.4	< 1.3	< 1.3							
2,4-Dichlorophenol		20	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.7	< 1.6	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 1.8	< 1.7	< 1.6	< 1.6	< 1.6							
2,4-Dimethylphenol		100	< 1.6	< 1.7	< 1.7	< 1.6	< 1.6	< 1.7	< 1.7	< 1.7	< 1.6	< 1.7	< 1.7	< 1.7	< 1.9	< 1.8	< 1.8	< 1.8	< 1.6							
2,4-Dinitrophenol		40	< 0.89	< 0.94	< 0.94	< 0.89	< 0.89	< 0.95	< 0.93	< 0.95	< 0.89 J	< 0.93	< 0.91	< 0.91	< 0.99	< 0.99	< 1	< 0.99	< 0.89	< 0.89						
2,4-Dinitrotoluene		NS	< 0.86	< 0.91	< 0.91	< 0.86	< 0.86	< 0.91	< 0.9	< 0.91	< 0.86	< 0.9	< 0.88	< 0.88	< 1	< 0.96	< 0.96	< 0.86	< 0.86							
2,6-Dinitrotoluene		NS	< 0.56	< 0.59	< 0.59	< 0.56	< 0.56	< 0.59	< 0.58	< 0.59	< 0.56	< 0.58	< 0.57	< 0.65	< 0.62	< 0.56	< 0.62	< 0.56	< 0.56							
2-Chloronaphthalene		600	< 0.98	< 1	< 1	< 0.98	< 0.98	< 1	< 1	< 1	< 0.98	< 1	< 1	< 1.1	< 1.1	< 0.98	< 0.98	< 1.1	< 0.98							
2-Chlorophenol		40	< 0.95	< 1	< 1	< 0.95	< 0.95	< 1	< 0.99	< 1	< 0.95	< 0.99	< 0.97	< 1.1	< 1.1	< 0.95	< 0.95	< 1.1	< 0.95							
2-Methylnaphthalene		NS	< 0.41	< 0.43	< 0.43	< 0.41	< 0.41	< 0.43	< 0.43	< 0.43	< 0.41	< 0.43	< 0.42	< 0.42	< 0.47	< 0.47	< 0.45	< 0.45	< 0.41							
2-Methylphenol		NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.6	< 1.5	< 1.4	< 1.4	< 1.4							
2-Nitroaniline		NS	< 0.66	< 0.7	< 0.7	< 0.66	< 0.66	< 0.7	< 0.69	< 0.7	< 0.66	< 0.69	< 0.68	< 0.77	< 0.74	< 0.74	< 0.74	< 0.74	< 0.66							
2-Nitrophenol		NS	< 1.8	< 1.9	< 1.9	< 1.8	< 1.8	< 1.9	< 1.9	< 1.9	< 1.8	< 1.9	< 1.8	< 2.1	< 2.1	< 1.8	< 1.8	< 2	< 1.8							
3&4-Methylphenol		NS	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.5	< 1.4	< 1.4	< 1.3	< 1.3							
3,3'-Dichlorobenzidine		30	< 1.2	< 1.3	< 1.3	< 1.2	< 1.2	< 1.3	< 1.3	< 1.3	< 1.3	< 1.2	< 1.2	< 1.2	< 1.4	< 1.4	< 1.4	< 1.2	< 1.2							
3-Nitroaniline		NS	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.5	< 1.4	< 1.4	< 1.4	< 1.3							
4,6-Dinitro-2-methylphenol		NS	< 0.72	< 0.76	< 0.76	< 0.72	< 0.72	< 0.77	< 0.75	< 0.77	< 0.72	< 0.75	< 0.74	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.72							
4-Bromophenyl phenyl ether		NS	< 0.3	< 0.31	< 0.31	< 0.3	< 0.3	< 0.32	< 0.31	< 0.32	< 0.3	< 0.31	< 0.31	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.3							
4-Chloro-3-Methylphenol		NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.4	< 1.4	< 1.4	< 1.3	< 1.2							
4-Chloroaniline		30	< 0.4	< 0.42	< 0.42	< 0.4	< 0.4	< 0.42	< 0.41	< 0.42	< 0.4	< 0.41	< 0.41	< 0.41	< 0.46	< 0.44	< 0.44	< 0.44	< 0.4							
4-Chlorophenyl phenyl ether		NS	< 0.43	< 0.45	< 0.45	< 0.43	< 0.43	< 0.46	< 0.45	< 0.46	< 0.43	< 0.45	< 0.44	< 0.44	< 0.5	< 0.48	< 0.48	< 0.43	< 0.43							
4-Nitroaniline		NS	< 0.72	< 0.76	< 0.76	< 0.72	< 0.72	< 0.77	< 0.75	< 0.77	< 0.72	< 0.75	< 0.74	< 0.74	< 0.84	< 0.84	< 0.84	< 0.84	< 0.72							
4-Nitrophenol		NS	< 0.84	< 0.89	< 0.89	< 0.84	< 0.84	< 0.9	< 0.88	< 0.9	< 0.88	< 0.9	< 0.88	< 0.88	< 0.98	< 0.98	< 0.98	< 0.98	< 0.84							
Acetophenone		700	< 0.37	< 0.39	< 0.39	< 0.37	< 0.37	< 0.4	< 0.39	< 0.4	< 0.39	< 0.4	< 0.39	< 0.38	< 0.43	< 0.43	< 0.42	< 0.42	< 0.37							
Atrazine		3	< 0.16	<																						

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Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location	Sample Name	Groundwater Samples														
		GWQS ¹		RW1(58-79)	RW1(97-118)	RW1(125-146)	RW2(19-50)	RW2(102-133)	RW2(161-192)	RW2(278-309)	RW2(441-472)	RW3(62-98)	RW4 (59-77)	RW4 (108-129)	RW4 (328-349)	RW4 (388-409)
Sample Date	Validation Status	10/10/2007	10/10/2007	10/10/2007	10/15/2007	10/15/2007	10/16/2007	10/16/2007	10/17/2007	10/12/2007	10/11/2007	10/11/2007	10/11/2007	10/11/2007	Final	Final
SVOCs BY SIM																
Acenaphthene		400	< 0.017	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.017	< 0.02	< 0.019	< 0.017
Acenaphthylene		NS	< 0.0095	< 0.01	< 0.01	< 0.0095	< 0.0095	< 0.01	< 0.0099	< 0.01	< 0.0095	< 0.0099	< 0.0097	< 0.011	< 0.011	< 0.0095
Anthracene		2000	< 0.021	< 0.022	< 0.022	< 0.021	< 0.021	< 0.022	< 0.022	< 0.022	< 0.021	< 0.022	< 0.021	< 0.024	< 0.023	< 0.021
Benzo(a)anthracene		0.1 [0.2]	< 0.0068	< 0.0072	< 0.0072	< 0.0068	< 0.0068	< 0.0072	< 0.0071	< 0.0072	< 0.0068	< 0.0071	< 0.0069	< 0.0079	< 0.0076	< 0.0068
Benzo(a)pyrene		0.1 [0.2]	< 0.017	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.018	< 0.017	< 0.018	< 0.017	< 0.017	< 0.02	< 0.019	< 0.017
Benzo(b)fluoranthene		0.2 [10]	< 0.036	< 0.038	< 0.038	< 0.036	< 0.036	< 0.039	< 0.038	< 0.039	< 0.036	< 0.038	< 0.037	< 0.042	< 0.04	< 0.036
Benzo(g,h,i)perylene		NS	< 0.018	< 0.019	< 0.019	< 0.018	< 0.018	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.018	< 0.021	< 0.02	< 0.018
Benzo(k)fluoranthene		0.5	< 0.016	< 0.017	< 0.017	< 0.016	< 0.016	< 0.017	< 0.016	< 0.017	< 0.016	< 0.016	< 0.016	< 0.018	< 0.017	< 0.016
Chrysene		5	< 0.017	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.019	< 0.019	< 0.017
Dibenzo(a,h)anthracene		0.3 [0.5]	< 0.016	< 0.017	< 0.017	< 0.016	< 0.016	< 0.017	< 0.017	< 0.017	< 0.016	< 0.017	< 0.017	< 0.019	< 0.018	< 0.016
Fluoranthene		300	< 0.009	< 0.0095	< 0.0095	< 0.009	< 0.009	< 0.0096	< 0.0094	< 0.0096	< 0.009	< 0.0094	< 0.0092	< 0.01	< 0.01	< 0.009
Fluorene		300	< 0.02	< 0.021	< 0.021	< 0.02	< 0.02	< 0.021	< 0.021	< 0.021	< 0.02	< 0.021	< 0.021	< 0.023	< 0.022	< 0.02
Hexachlorobenzene		0.02 [10]	< 0.02	< 0.021*	< 0.021*	< 0.02	< 0.02	< 0.021*	< 0.021*	< 0.021*	< 0.02	< 0.021*	< 0.02	< 0.023*	< 0.022*	< 0.02
Indeno(1,2,3-cd)pyrene		0.2 [10]	< 0.011	< 0.012	< 0.012	< 0.011	< 0.011	< 0.012	< 0.012	< 0.012	< 0.011	< 0.012	< 0.011	< 0.013	< 0.012	< 0.011
Naphthalene		300	< 0.026	< 0.027	< 0.027	< 0.026	< 0.026	< 0.027	< 0.027	< 0.027	< 0.026	< 0.027	< 0.026	< 0.03	< 0.029	< 0.026
Pentachlorophenol		0.3 [1]	< 0.3	< 0.32*	< 0.32*	< 0.3	< 0.3	< 0.32*	< 0.31*	< 0.32*	< 0.3	< 0.31* R	< 0.31* R	< 0.35* R	< 0.33* R	< 0.3
Phenanthrene		NS	< 0.021	< 0.022	< 0.022	< 0.021	< 0.021	< 0.022	< 0.022	< 0.022	< 0.021	< 0.022	< 0.022	< 0.025	< 0.023	< 0.021
Pyrene		200	< 0.014	< 0.015	< 0.015	< 0.014	< 0.014	< 0.015	< 0.015	< 0.015	< 0.014	< 0.014	< 0.015	< 0.016	< 0.016	< 0.014
PCBs																
PCB 1016		0.5	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.1	< 0.1	< 0.099	< 0.094	< 0.099	< 0.094	< 0.1	< 0.094	< 0.1
PCB 1221		0.5	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.5	< 0.52	< 0.49	< 0.47	< 0.49	< 0.47	< 0.51	< 0.47	< 0.51
PCB 1232		0.5	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.41	< 0.43	< 0.41	< 0.39	< 0.41	< 0.39	< 0.42	< 0.39	< 0.42
PCB 1242		0.5	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17	< 0.18	< 0.17	< 0.16	< 0.17	< 0.16	< 0.18	< 0.16	< 0.18
PCB 1248		0.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.16	< 0.17	< 0.16	< 0.15	< 0.16	< 0.15	< 0.16	< 0.15	< 0.16
PCB 1254		0.5	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11	< 0.12
PCB 1260		0.5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12	< 0.13
Total PCBs		0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals - Total																
Aluminum		200	40.1 B	59.8 B	82.4 B	161 B	117 B	< 26	282	< 26	< 26	27.7 B	< 26	< 26	42.3 B	94 B
Antimony		6	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Arsenic		3 [8]	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1 J	< 1.1	< 1.1	1.3 B	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Barium		2000	6.6 B	3.2 B	3.7 B	67.8 B	54.9 B	52.6 B	80.4 B	69.9 B						

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Location	Sample Name	Groundwater Samples													
		RW1(58-79)	RW1(97-118)	RW1(125-146)	RW2(19-50)	RW2(102-133)	RW2(161-192)	RW2(278-309)	RW2(441-472)	RW3(62-98)	RW4 (59-77)	RW4 (108-129)	RW4 (328-349)	RW4 (388-409)	RW-5
Sample Date	GWQS ¹	10/10/2007 Final	10/10/2007 Final	10/10/2007 Final	10/15/2007 Final	10/15/2007 Final	10/16/2007 Final	10/17/2007 Final	10/12/2007 Final	10/11/2007 Final	10/11/2007 Final	10/11/2007 Final	10/11/2007 Final	10/11/2007 Final	10/15/2007 Final
Validation Status															
Metals - Dissolved															
Aluminum	200	< 26	< 26	< 26	83 B	112 B	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	73.8 B
Antimony	6	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Arsenic	3 [8]	< 1.1	< 1.1	< 1.1	< 1.1	1.1 BJ	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	1.5 B	< 1.1	< 1.1	< 1.1
Barium	2000	6.4 B	< 3	3.8 B	66.4 B	54 B	45.6 B	60.7 B	61.6 B	39.6 B	7.7 B	15.1 B	9.1 B	9.9 B	14.3 B
Beryllium	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cadmium	4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Calcium	NS	24400	28400	28300	71400	114000	79500 J	88800 J	102000 J	52300	10300	13800	11700	10600	66600
Chromium	70	0.7 B	< 0.53	0.9 B	0.6 B	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	1.1 B	0.7 B	< 0.53	0.9 B	1.1 B
Cobalt	NS	1.1 B	1.1 B	1.2 B	4 B	3.6 B	3.6 B	3.7 B	3.6 B	1.6 B	0.6 B	0.6 B	0.4 B	0.6 B	6.4 B
Copper	1,300	< 3.3	< 3.3	< 3.3	7.6 B	5.8 B	4 B	4.9 B	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3
Iron	300	10.3 B	10.3 B	12.6 B	< 6.3	19.2 B	16.5 BJ	22.5 BJ	34 BJ	32.7 B	36.9 B	< 6.3	31.6 J	26.9 J	1280
Lead	5	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	1 B
Magnesium	NS	4990 B	4340 B	4290 B	24500	31300	20000 J	27000 J	28100 J	15200	4040 B	5430	4480 B	4180 B	17000
Manganese	50	2.2 B	1.9 B	19.4	697	345	1230 J	1040 J	1120 J	146	32.9	1 BJ	3.8 B	4.3 B	4860
Mercury	2	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Nickel	100	1.6 B	< 0.73	1 B	8.2 B	7.3 B	9.5 B	10.6 B	7 B	< 0.73	3.5 B	1.1 B	1.2 B	1.5 B	5.1 B
Potassium	NS	884 B	767 B	785 B	2110 B	2170 B	1840 B	1850 B	1900 B	1830 B	1110 B	1220 B	1100 B	1050 B	4170 B
Selenium	40	0.8 B	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73
Silver	40	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83
Sodium	50,000	3840 B	5220 B	5400 B	95300	74200	49100 J	64600 J	74200 J	7160 B	5460 B	5800 B	5720 B	5360 B	9070 B
Thallium	2 [10]	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Vanadium	NS	0.6 B	0.8 B	0.8 B	1.7 BJ	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	0.7 B	0.5 B	0.5 B	< 0.49
Zinc	2000	172	195	88.7	465	483 J	720	2250	3540	127	1440	141	1380	814	< 2.7
Other															
Alkalinity, total (as CaCO ₃)	NS	64100	76900	74700	206000	334000	299000	140000	187000	176000	43500	50400	45600	46100	249000
Nitrogen, Nitrate + Nitrite	NS	< 100	< 100	< 100	4000	3900	630	3100	3100	500	< 100	< 100	< 100	< 100	< 100
Phosphorus, Total	NS	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	130	< 50	< 50	< 50	< 50	< 50
Chloride	250000	10000	5700	4800	258000	242000	213000	196000	227000	17200	< 2000	2100	< 2000	< 2000	2100
Nitrate	10000	< 110	< 110	< 110	4000	3800	390	3000	2900	500	< 110	< 110	< 110	< 110	< 110
Nitrogen, Nitrite	1,000	< 10	< 10	< 10	< 10	110	240	66	230	< 10	< 10	< 10	< 10	< 10	< 10
Sulfate	250000	12900	18000	18800	21600	21300	19600	19300	19900	11300	13900	18300	15700	15500	18200
Alkalinity, Bicarbonate	NS	64100	76200	74300	206000	334000	299000	140000	74400	176000	43400	50300	45500	46100	249000
Alkalinity, Carbonate	NS	< 5000	< 5000	< 5000	< 5000	< 5000	53200	54700	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
Cyanide	100	< 10	< 10	< 10	< 10	< 10 J	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J

Table 5: Summary of October 2007 Groundwater Analytical Results**Ringwood Mines/Landfill Site, Ringwood, New Jersey****Location**

Sample Name	RW-5A	
Sample Date	GWQS¹	10/15/2007
Validation Status	Final	
VOCs		
1,1,1-Trichloroethane	30	< 0.3
1,1,2,2-Tetrachloroethane	1	< 0.8
1,1,2-Trichloroethane	3	< 0.49
1,1-Dichloroethane	50	< 0.2
1,1-Dichloroethene	1	< 0.28
1,2,4-Trichlorobenzene	9	< 0.41
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 0.8*
1,2-Dibromoethane	0.03 [0.5]	< 0.45*
1,2-Dichlorobenzene	600	< 0.2
1,2-Dichloroethane	2	< 0.29
1,2-Dichloropropane	1	< 0.24
1,3-Dichlorobenzene	600	< 0.21
1,4-Dichlorobenzene	75	< 0.17
2-Butanone (MEK)	300	< 2.7
2-Hexanone	NS	< 0.94
4-methyl-2-pentanone (MIBK)	NS	< 1.4
Acetone	6000	< 2.9
Benzene	1	< 0.19
Bromodichloromethane	1	< 0.15
Bromoform	4	< 0.34
Bromomethane	10	< 0.38
Carbon disulfide	700	< 0.14
Carbon tetrachloride	1	< 0.19
Chlorobenzene	50	< 0.19
Chloroethane	NS	0.79 J
Chloroform	70	< 0.25
Chloromethane	NS	< 0.3
cis-1,2-Dichloroethene	70	< 0.27
cis-1,3-Dichloropropene	NS	< 0.13
Cyclohexane	NS	< 0.85
Dibromochloromethane	1	< 0.28
Dichlorodifluoromethane	1,000	< 1
Ethylbenzene	700	< 0.21
Freon 113	NS	< 1.2
Isopropylbenzene	700	< 0.54
Methyl acetate	7000	< 1.6
Methyl tert butyl ether	70	< 0.2
Methylcyclohexane	NS	< 0.5
Methylene chloride	3	< 0.21
o-Xylene	NS	< 0.2
Styrene	100	< 0.2
Tetrachloroethene	1	< 0.28
Toluene	1000	< 0.21
Trans-1,2-dichloroethene	100	< 0.32
trans-1,3-Dichloropropene	NS	< 0.17
Trichloroethene	1	< 0.26
Trichlorofluoromethane	2000	< 0.26
Vinyl Chloride	1	< 0.22
Xylene, -m,p	NS	< 0.35
Xylenes	1,000	< 0.2
Total TIC, Volatile	NS	0

Table 5: Summary of October 2007 Groundwater Analytical Results**Ringwood Mines/Landfill Site, Ringwood, New Jersey****Location**

Sample Name	RW-5A
Sample Date	GWQS¹
Validation Status	10/15/2007
SVOCs	
1,1'-Biphenyl	400 < 0.37
2,4,5-Trichlorophenol	700 < 2.2
2,4,6-Trichlorophenol	20 < 1.4
2,4-Dichlorophenol	20 < 1.8
2,4-Dimethylphenol	100 < 1.8
2,4-Dinitrophenol	40 < 1
2,4-Dinitrotoluene	NS < 0.97
2,6-Dinitrotoluene	NS < 0.63
2-Chloronaphthalene	600 < 1.1
2-Chlorophenol	40 < 1.1
2-Methylnaphthalene	NS < 0.46
2-Methylphenol	NS < 1.5
2-Nitroaniline	NS < 0.74
2-Nitrophenol	NS < 2
3&4-Methylphenol	NS < 1.4
3,3'-Dichlorobenzidine	30 < 1.4
3-Nitroaniline	NS < 1.4
4,6-Dinitro-2-methylphenol	NS < 0.81
4-Bromophenyl phenyl ether	NS < 0.34
4-Chloro-3-Methylphenol	NS < 1.3
4-Chloroaniline	30 < 0.45
4-Chlorophenyl phenyl ether	NS < 0.48
4-Nitroaniline	NS < 0.81
4-Nitrophenol	NS < 0.95
Acetophenone	700 < 0.42
Atrazine	3 < 0.18
Benzaldehyde	NS < 0.3
Benzyl butyl phthalate	100 < 0.67
bis(2-Chloroethoxy)methane	NS < 0.73
bis(2-Chloroethyl)ether	7 < 0.6
bis(2-Chloroisopropyl)ether	300 < 0.83
bis(2-Ethylhexyl)phthalate	3 < 0.74
Caprolactam	NS < 0.35
Carbazole	NS < 0.41
Dibenzofuran	NS < 0.39
Diethyl phthalate	6000 < 0.44
Dimethyl phthalate	NS < 0.37
di-n-butyl phthalate	700 < 0.67
di-n-octylphthalate	100 < 0.64
Hexachlorobutadiene	1 < 0.2
Hexachlorocyclopentadiene	40 < 0.46
Hexachloroethane	7 < 0.32
Isophrone	40 < 0.66
Nitrobenzene	6 < 0.47
N-Nitroso-di-n-Propylamine	10 < 0.53
N-Nitrosodiphenylamine	10 < 0.58
Phenol	2000 < 0.56
Total TIC, Semi-Volatile	NS 0

Table 5: Summary of October 2007 Groundwater Analytical Results**Ringwood Mines/Landfill Site, Ringwood, New Jersey****Location**

Sample Name	RW-5A	
Sample Date	GWQS¹	10/15/2007
Validation Status	Final	
SVOCs BY SIM		
Acenaphthene	400	< 0.019
Acenaphthylene	NS	< 0.011
Anthracene	2000	< 0.023
Benzo(a)anthracene	0.1 [0.2]	< 0.0076
Benzo(a)pyrene	0.1 [0.2]	< 0.019
Benzo(b)fluoranthene	0.2 [10]	< 0.041
Benzo(g,h,i)perylene	NS	< 0.02
Benzo(k)fluoranthene	0.5	< 0.018
Chrysene	5	< 0.019
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.018
Fluoranthene	300	< 0.01
Fluorene	300	< 0.023
Hexachlorobenzene	0.02 [10]	< 0.022*
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.012
Naphthalene	300	< 0.029
Pentachlorophenol	0.3 [1]	< 0.34*
Phenanthrene	NS	< 0.024
Pyrene	200	< 0.016
PCBs		
PCB 1016	0.5	< 0.1
PCB 1221	0.5	< 0.51
PCB 1232	0.5	< 0.42
PCB 1242	0.5	< 0.18
PCB 1248	0.5	< 0.17
PCB 1254	0.5	< 0.12
PCB 1260	0.5	< 0.13
Total PCBs	0.5	0
Metals - Total		
Aluminum	200	1010
Antimony	6	< 0.9
Arsenic	3 [8]	< 1.1
Barium	2000	4.8 B
Beryllium	1	0.2 B
Cadmium	4	< 0.24
Calcium	NS	24800 J
Chromium	70	0.9 BJ
Cobalt	NS	2.1 B
Copper	1,300	26.7
Iron	300	524
Lead	5	1.9 B
Magnesium	NS	5120
Manganese	50	364
Mercury	2	< 0.15
Nickel	100	1.9 B
Potassium	NS	3280 BJ
Selenium	40	< 0.73
Silver	40	< 0.83
Sodium	50,000	7020 BJ
Thallium	2 [10]	< 1.4
Vanadium	NS	1.1 BJ
Zinc	2000	< 2.7

Table 5: Summary of October 2007 Groundwater Analytical Results**Ringwood Mines/Landfill Site, Ringwood, New Jersey****Location**

Sample Name	RW-5A	
Sample Date	GWQS¹	10/15/2007
Validation Status	Final	
Metals - Dissolved		
Aluminum	200	63.3 B
Antimony	6	< 0.9
Arsenic	3 [8]	< 1.1
Barium	2000	< 3
Beryllium	1	< 0.15
Cadmium	4	< 0.24
Calcium	NS	27700 J
Chromium	70	1.1 BJ
Cobalt	NS	2.4 B
Copper	1,300	5.9 B
Iron	300	< 6.3
Lead	5	< 0.94
Magnesium	NS	5450
Manganese	50	396
Mercury	2	< 0.15
Nickel	100	1.9 B
Potassium	NS	3680 BJ
Selenium	40	< 0.73
Silver	40	< 0.83
Sodium	50,000	8120 BJ
Thallium	2 [10]	< 1.4
Vanadium	NS	1.4 BJ
Zinc	2000	< 2.7
Other		
Alkalinity, total (as CaCO ₃)	NS	98100
Nitrogen, Nitrate + Nitrite	NS	< 100
Phosphorus, Total	NS	< 50
Chloride	250000	2500
Nitrate	10000	< 110
Nitrogen, Nitrite	1,000	< 10
Sulfate	250000	15400
Alkalinity, Bicarbonate	NS	97800
Alkalinity, Carbonate	NS	< 5000
Cyanide	100	< 10 J

**Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey**

Location	Groundwater Samples										
	Sample Name	GWQS ¹	RW-6	RW-6A	RW-7	SC-1	PMAIRSHAFT 180	PMAIRSHAFT 222	FIELDBLANK	FIELDBLANK	FIELDBLANK
Sample Date			10/11/2007	10/16/2007	10/15/2007	10/16/2007	10/17/2007	10/17/2007	10/8/2007	10/9/2007	10/10/2007
Validation Status			Final	Final	Final	Final	Final	Final	Final	Final	Final
VOCs											
1,1,1-Trichloroethane	30	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2,2-Tetrachloroethane	1	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichloroethane	3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
1,1-Dichloroethane	50	1.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	1	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	9	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*
1,2-Dibromoethane	0.03 [0.5]	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*
1,2-Dichlorobenzene	600	< 0.2	< 0.2	< 0.2	< 0.2	0.42 J	0.4 J	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	2	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-Dichloropropane	1	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,3-Dichlorobenzene	600	< 0.21	< 0.21	< 0.21	< 0.21	1.5	1.3	< 0.21	< 0.21	< 0.21	< 0.21
1,4-Dichlorobenzene	75	< 0.17	< 0.17	< 0.17	< 0.17	7.6	6.3	< 0.17	< 0.17	< 0.17	< 0.17
2-Butanone (MEK)	300	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
2-Hexanone	NS	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94
4-methyl-2-pentanone (MIBK)	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Acetone	6000	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Benzene	1	<u>2.6</u>	<u>5.5</u>	< 0.19	<u>1.5</u>	<u>30.1</u>	<u>29.9</u>	< 0.19	< 0.19	< 0.19	< 0.19
Bromodichloromethane	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Bromoform	4	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Bromomethane	10	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Carbon disulfide	700	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Carbon tetrachloride	1	< 0.19	< 0.19 J	< 0.19	< 0.19 J	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	50	< 0.19	< 0.19	< 0.19	< 0.19	8.3	8	< 0.19	< 0.19	< 0.19	< 0.19
Chloroethane	NS	8.5	2.4	< 0.67	3.6	25.9	23.1	< 0.67	< 0.67	< 0.67	< 0.67
Chloroform	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chloromethane	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,2-Dichloroethene	70	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
cis-1,3-Dichloropropene	NS	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Cyclohexane	NS	< 0.85	3.5 J	< 0.85	1.9 J	2.3 J	1.8 J	< 0.85	< 0.85	< 0.85	< 0.85
Dibromochloromethane	1	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Dichlorodifluoromethane	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	700	< 0.21	15.2	< 0.21	2.7	1.9	0.82 J	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Isopropylbenzene	700	0.98 J	10.8	< 0.54	2.1	11.1	9.2	< 0.54	< 0.54	< 0.54	< 0.54
Methyl acetate	7000	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Methyl tert butyl ether	70	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Methylcyclohexane	NS	< 0.5	1.1 J	< 0.5	2 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methylene chloride	3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	0.27 J	< 0.21	< 0.21	< 0.21
o-Xylene	NS	< 0.2	2.6	< 0.2	3.8	1.9	1.1	< 0.2	< 0.2	< 0.2	< 0.2
Styrene	100	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethene	1	< 0.28 J	< 0.28 J	< 0.28	< 0.28 J	< 0.28	< 0.28	0.34 J	< 0.28	< 0.28	< 0.28
Toluene	1000	< 0.21	< 0.21	< 0.21	1.3	0.75 J	0.47 J	< 0.21	< 0.21	< 0.21	< 0.21
Trans-1,2-dichloroethene	100	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
trans-1,3-Dichloropropene	NS	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17 J	< 0.17 J	< 0.17	< 0.17	< 0.17	< 0.17
Trichloroethene	1	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Trichlorofluoromethane	2000	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Vinyl Chloride	1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Xylene, -m,p	NS	< 0.35	240	< 0.35	51	13.3	6.5	< 0.35	< 0.35	< 0.35	< 0.35
Xylenes	1,000	< 0.2	242	< 0.2	54.8	15.2	7.5	< 0.2	< 0.2	< 0.2	< 0.2
Total TIC, Volatile	NS	0	179.4 J	0	54.8 J	16.9 J	5 J	0	0	0	0

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location Sample Name	GWQS ¹	Groundwater Samples									
		RW-6	RW-6A	RW-7	SC-1	PMAIRSHAFT 180	PMAIRSHAFT 222	FIELDBLANK	FIELDBLANK	FIELDBLANK	FIELDBLANK
		10/11/2007 Final	10/16/2007 Final	10/15/2007 Final	10/16/2007 Final	10/17/2007 Final	10/17/2007 Final	10/8/2007 Final	10/9/2007 Final	10/10/2007 Final	10/10/2007 Final
SVOCs											
1,1'-Biphenyl	400	< 0.33	< 0.22	< 0.33	< 0.22	< 0.24	< 0.24	< 0.35	< 0.41	< 0.33	< 0.33
2,4,5-Trichlorophenol	700	< 1.9	< 1.1	< 1.9	< 1.1	< 1.2	< 1.2	< 2.1	< 2.4	< 1.9	< 1.9
2,4,6-Trichlorophenol	20	< 1.3	< 1	< 1.3	< 1	< 1.1	< 1.1	< 1.3	< 1.6	< 1.3	< 1.3
2,4-Dichlorophenol	20	< 1.6	< 1.4	< 1.6	< 1.4	< 1.5	< 1.5	< 1.7	< 2	< 1.6	< 1.6
2,4-Dimethylphenol	100	< 1.6	5.7	< 1.6	< 1.7	< 1.8	< 1.8	< 1.7	< 2.1	< 1.6	< 1.6
2,4-Dinitrophenol	40	< 0.89	< 1.1	< 0.89	< 1.1	< 1.2	< 1.2	< 0.95	< 1.1	< 0.89	< 0.89
2,4-Dinitrotoluene	NS	< 0.86	< 0.54	< 0.86	< 0.54	< 0.58	< 0.58	< 0.91	< 1.1	< 0.86	< 0.86
2,6-Dinitrotoluene	NS	< 0.56	< 0.5	< 0.56	< 0.5	< 0.53	< 0.54	< 0.59	< 0.7	< 0.56	< 0.56
2-Chloronaphthalene	600	< 0.98	< 0.2	< 0.98	< 0.2	< 0.21	< 0.21	< 1	< 1.2	< 0.98	< 0.98
2-Chlorophenol	40	< 0.95	< 0.87	< 0.95	< 0.87	< 0.93	< 0.94	< 1	< 1.2	< 0.95	< 0.95
2-Methylnaphthalene	NS	< 0.41	1.1 J	< 0.41	< 0.76	< 0.81	< 0.82	< 0.43	< 0.51	< 0.41	< 0.41
2-Methylphenol	NS	< 1.4	< 1	< 1.4	< 1	< 1.1	< 1.1	< 1.4	< 1.7	< 1.4	< 1.4
2-Nitroaniline	NS	< 0.66	< 0.5	< 0.66	< 0.5	< 0.53	< 0.53	< 0.7	< 0.83	< 0.66	< 0.66
2-Nitrophenol	NS	< 1.8	< 1.5	< 1.8	< 1.5	< 1.6	< 1.6	< 1.9	< 2.3	< 1.8	< 1.8
3&4-Methylphenol	NS	< 1.3	< 1.1	< 1.3	< 1.1	< 1.2	< 1.2	< 1.4	< 1.6	< 1.3	< 1.3
3,3'-Dichlorobenzidine	30	< 1.2	< 0.97	< 1.2	< 0.97	< 1	< 1	< 1.3	< 1.5	< 1.2	< 1.2
3-Nitroaniline	NS	< 1.3	< 0.32	< 1.3	< 0.32	< 0.34	< 0.35	< 1.3	< 1.6	< 1.3	< 1.3
4,6-Dinitro-2-methylphenol	NS	< 0.72	< 2.2	< 0.72	< 2.2	< 2.4	< 2.4	< 0.77	< 0.9	< 0.72	< 0.72
4-Bromophenyl phenyl ether	NS	< 0.3	< 0.37	< 0.3	< 0.37	< 0.4	< 0.4	< 0.32	< 0.37	< 0.3	< 0.3
4-Chloro-3-Methylphenol	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.3	< 1.3	< 1.5	< 1.2	< 1.2
4-Chloroaniline	30	< 0.4	< 0.35	< 0.4	< 0.35	< 0.37	< 0.37	< 0.42	< 0.5	< 0.4	< 0.4
4-Chlorophenyl phenyl ether	NS	< 0.43	< 0.29	< 0.43	< 0.29	< 0.31	< 0.31	< 0.46	< 0.54	< 0.43	< 0.43
4-Nitroaniline	NS	< 0.72	< 0.59	< 0.72	< 0.59	< 0.63	< 0.63	< 0.77	< 0.9	< 0.72	< 0.72
4-Nitrophenol	NS	< 0.84	< 1.6	< 0.84	< 1.6	< 1.7	< 1.7	< 0.9	< 1.1	< 0.84	< 0.84
Acetophenone	700	< 0.37	< 0.36	< 0.37	< 0.36	< 0.38	< 0.39	< 0.4	< 0.47	< 0.37	< 0.37
Atrazine	3	< 0.16	< 0.28	< 0.16	< 0.28	< 0.3	< 0.3	< 0.17	< 0.2	< 0.16	< 0.16
Benzaldehyde	NS	< 0.27	< 0.76	< 0.27	< 0.76	< 0.81	< 0.82	< 0.28	< 0.33 R	< 0.27 R	< 0.27 R
Benzyl butyl phthalate	100	< 0.59	< 0.64	< 0.59	< 0.64	< 0.68	< 0.69	< 0.63	< 0.74	< 0.59	< 0.59
bis(2-Chloroethoxy)methane	NS	< 0.65	< 0.32	< 0.65	< 0.32	< 0.34	< 0.34	< 0.7	< 0.82	< 0.65	< 0.65
bis(2-Chloroethyl)ether	7	< 0.53	< 0.67	< 0.53	< 0.67	< 0.72	< 0.72	< 0.56	< 0.66	< 0.53	< 0.53
bis(2-Chloroisopropyl)ether	300	< 0.74	< 0.58	< 0.74	< 0.58	< 0.61	< 0.62	< 0.79	< 0.92	< 0.74	< 0.74
bis(2-Ethylhexyl)phthalate	3	<u>4.2</u>	< 0.88	< 0.66	2.1	< 0.93	1.1 J	< 0.7	< 0.83	< 0.66	< 0.66
Caprolactam	NS	< 0.32	< 0.49	< 0.32	< 0.49	1.6 J	2.1 J	< 0.34	< 0.39	< 0.32	< 0.32
Carbazole	NS	< 0.36	0.4 J	< 0.36	0.45 J	< 0.42	< 0.43	< 0.39	< 0.46	< 0.36	< 0.36
Dibenzofuran	NS	< 0.34	< 0.23	< 0.34	< 0.23	< 0.24	< 0.25	< 0.37	< 0.43	< 0.34	< 0.34
Diethyl phthalate	6000	< 0.39	< 0.34	< 0.39	< 0.34	< 0.37	< 0.37	< 0.41	< 0.49	< 0.39	< 0.39
Dimethyl phthalate	NS	< 0.33	< 0.34	< 0.33	< 0.34	< 0.36	< 0.36	< 0.35	< 0.41	< 0.33	< 0.33
di-n-butyl phthalate	700	< 0.59	< 0.4	< 0.59	< 0.4	< 0.43	< 0.43	< 0.63	< 0.74	< 0.59	< 0.59
di-n-octylphthalate	100	< 0.57	< 0.48	< 0.57	< 0.48	< 0.51	< 0.51	< 0.61	< 0.71	< 0.57	< 0.57
Hexachlorobutadiene	1	< 0.18	< 0.13	< 0.18	< 0.13	< 0.14	< 0.14	< 0.19	< 0.22 R	< 0.18	< 0.18
Hexachlorocyclopentadiene	40	< 0.41	< 0.1	< 0.41	< 0.1	< 0.11	< 0.11	< 0.43	< 0.51	< 0.41	< 0.41
Hexachloroethane	7	< 0.28	< 0.16	< 0.28	< 0.16	< 0.17	< 0.17	< 0.3	< 0.35	< 0.28	< 0.28
Isophrone	40	< 0.59	< 0.49	< 0.59	< 0.49	< 0.52	< 0.53	< 0.63	< 0.74	< 0.59	< 0.59
Nitrobenzene	6	< 0.42	< 0.71	< 0.42	< 0.71	< 0.75	< 0.76	< 0.45	< 0.52	< 0.42	< 0.42
N-Nitroso-di-n-Propylamine	10	< 0.47	< 0.38	< 0.47	< 0.38	< 0.41	< 0.41	< 0.5	< 0.59	< 0.47	< 0.47
N-Nitrosodiphenylamine	10	< 0.52	1.4 J	< 0.52	1.8 J	1.3 J	1.3 J	< 0.55	< 0.65	< 0.52	< 0.52
Phenol	2000	< 0.5	< 0.68	< 0.5	< 0.68	< 0.73	< 0.73	< 0.53	< 0.62	< 0.5	< 0.5
Total TIC, Semi-Volatile	NS	37.9 J	231.9 J</td								

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location Sample Name	GWQS ¹	Groundwater Samples									
		RW-6	RW-6A	RW-7	SC-1	PMAIRSHAFT 180	PMAIRSHAFT 222	FIELDBLANK	FIELDBLANK	FIELDBLANK	FIELDBLANK
		10/11/2007 Final	10/16/2007 Final	10/15/2007 Final	10/16/2007 Final	10/17/2007 Final	10/17/2007 Final	10/8/2007 Final	10/9/2007 Final	10/10/2007 Final	10/10/2007 Final
SVOCs BY SIM											
Acenaphthene	400	< 0.017	< 0.017	< 0.017	< 0.017	< 0.02	< 0.02	< 0.018	< 0.021	< 0.019	< 0.019
Acenaphthylene	NS	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.011	< 0.011	< 0.01	< 0.012	< 0.01	< 0.01
Anthracene	2000	< 0.021	< 0.021	< 0.021	< 0.021	< 0.025	< 0.024	< 0.022	< 0.026	< 0.023	< 0.023
Benzo(a)anthracene	0.1 [0.2]	< 0.0068	< 0.0068	< 0.0068	< 0.0068	< 0.0081	< 0.0079	< 0.0072	< 0.0085	< 0.0074	< 0.0074
Benzo(a)pyrene	0.1 [0.2]	< 0.017	< 0.017	< 0.017	< 0.017	< 0.02	< 0.02	< 0.018	< 0.021	< 0.018	< 0.018
Benzo(b)fluoranthene	0.2 [10]	< 0.036	< 0.036	< 0.036	< 0.036	< 0.043	< 0.042	< 0.039	< 0.045	< 0.039	< 0.039
Benzo(g,h,i)perylene	NS	< 0.018	< 0.018	< 0.018	< 0.018	< 0.021	< 0.021	< 0.019	< 0.022	< 0.019	< 0.019
Benzo(k)fluoranthene	0.5	< 0.016	< 0.016	< 0.016	< 0.016	< 0.019	< 0.018	< 0.017	< 0.02	< 0.017	< 0.017
Chrysene	5	< 0.017	< 0.017	< 0.017	< 0.017	< 0.02	< 0.019	< 0.018	< 0.021	< 0.018	< 0.018
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.016	< 0.016	< 0.016	< 0.016	< 0.02	< 0.019	< 0.017	< 0.021	< 0.018	< 0.018
Fluoranthene	300	< 0.009	< 0.009	< 0.009	0.239	< 0.011	< 0.01	< 0.0096	< 0.011	< 0.0098	< 0.0098
Fluorene	300	< 0.02	< 0.02	< 0.02	< 0.02	< 0.024	< 0.023	< 0.021	< 0.025	< 0.022	< 0.022
Hexachlorobenzene	0.02 [10]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.024*	< 0.023*	< 0.021*	< 0.025*	< 0.022*	< 0.022*
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.011	< 0.011	< 0.011	< 0.011	< 0.013	< 0.013	< 0.012	< 0.014	< 0.012	< 0.012
Naphthalene	300	0.792	10.6	< 0.026	7	4.33	3.98	< 0.027	< 0.032	< 0.028	< 0.028
Pentachlorophenol	0.3 [1]	< 0.3 R	< 0.3	< 0.3	< 0.3	< 0.36*	< 0.35*	< 0.32* R	< 0.38* R	< 0.33*	< 0.33*
Phenanthrene	NS	0.237	0.299	< 0.021	0.28	< 0.025	< 0.025	< 0.022	< 0.026	< 0.023	< 0.023
Pyrene	200	< 0.014	< 0.014	< 0.014	< 0.017	< 0.017	< 0.016	< 0.015	< 0.018	< 0.015	< 0.015
PCBs											
PCB 1016	0.5	< 0.094	< 0.1	< 0.094	< 0.094	< 0.098	< 0.1	< 0.094	< 0.094	< 0.099	< 0.099
PCB 1221	0.5	< 0.47	< 0.5	< 0.47	< 0.47	< 0.49	< 0.52	< 0.47	< 0.47	< 0.49	< 0.49
PCB 1232	0.5	< 0.39	< 0.41	< 0.39	< 0.39	< 0.41	< 0.43	< 0.39	< 0.39	< 0.41	< 0.41
PCB 1242	0.5	< 0.16	< 0.17	< 0.16	< 0.16	< 0.17	< 0.18	< 0.16	< 0.16	< 0.17	< 0.17
PCB 1248	0.5	< 0.15	< 0.16	< 0.15	< 0.15	< 0.16	< 0.17	< 0.15	< 0.15	< 0.16	< 0.16
PCB 1254	0.5	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11
PCB 1260	0.5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0
Metals - Total											
Aluminum	200	< 26	< 26	405	< 26	37.2 B	< 26	< 26	< 26	< 26	< 26
Antimony	6	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	1.1 B	1.6 B	1.6 B
Arsenic	3 [8]	2.5 B	< 1.1	< 1.1	< 1.1	< 1.1	1.4 B	< 1.1	< 1.1	< 1.1	< 1.1
Barium	2000	300	14.3 B	< 3	337	604	617	< 3	< 3	< 3	< 3
Beryllium	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cadmium	4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Calcium	NS	62100	80700 J	11600	45000 J	100000 J	109000	< 22	23.5 B	24.6 B	24.6 B
Chromium	70	6.3 B	8.1 B	0.7 B	2.6 B	2.4 B	2.1 B	< 0.53	< 0.53	< 0.53	< 0.53
Cobalt	NS	15.9 B	12.6 B	0.7 BJ	4.4 B	4.9 B	4.7 B	< 0.15	< 0.15	< 0.15	< 0.15
Copper	1,300	< 3.3	4.5 B	23.2 B	6 B	< 3.3	< 3.3	4.2 B	< 3.3	< 3.3	< 3.3
Iron	300	50800	11700 J	342	60800 J	152000	158000	< 6.3 J	8.5 B	9.3 B	9.3 B
Lead	5	< 0.94	< 0.94	< 0.94	8.8	2.8 B	2.5 B	< 0.94	< 0.94	< 0.94	< 0.94
Magnesium	NS	9250	19100 J	3840 B	3930 BJ	10900 J	11700 J	< 25	< 25 J	< 25	< 25
Manganese	50	5210	11200	6.9 B	655	2680	2580	< 0.17 J	0.4 B	0.3 B	0.3 B
Mercury	2	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Nickel	100	6.6 B	2.9 B	0.8 BJ	8.4 B	5.7 B	5.7 B	< 0.73	< 0.73	< 0.73	< 0.73
Potassium	NS	8270 B	12900 J	818 BJ	2170 B	6750 BJ	7210 B	< 31	< 31	< 31	< 31
Selenium	40	< 0.73	< 0.73	< 0.73	< 0.73	2.4 B	5.1 B	< 0.73	1.1 B	2.3 B	2.3 B
Silver	40	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83
Sodium	50,000	7790 B	14700 J	3600 B	3620 BJ	27500 J	29300 J	< 19	54.3 BJ	49.1 B	49.1

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location	Sample Name	Groundwater Samples										
		RW-6	RW-6A	RW-7	SC-1	PMAIRSHAFT 180	PMAIRSHAFT 222	FIELDBLANK	FIELDBLANK	FIELDBLANK	FIELDBLANK	
Sample Date	GWQS ¹	10/11/2007	10/16/2007	10/15/2007	10/16/2007	10/17/2007	10/17/2007	10/8/2007	10/9/2007	10/10/2007	10/10/2007	
Validation Status												
Metals - Dissolved												
Aluminum	200	< 26	< 26	47 B	< 26	< 26	< 26	NA	NA	NA	NA	
Antimony	6	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	NA	NA	NA	NA	
Arsenic	3 [8]	1.2 B	< 1.1	< 1.1	< 1.1	1.2 B	2 B	NA	NA	NA	NA	
Barium	2000	279	15 B	< 3	314	514	570	NA	NA	NA	NA	
Beryllium	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	NA	NA	NA	
Cadmium	4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	NA	NA	NA	
Calcium	NS	63000	80200 J	11900	43400 J	106000 J	104000	NA	NA	NA	NA	
Chromium	70	1.4 B	1.4 B	< 0.53	< 0.53	1.5 B	< 0.53	NA	NA	NA	NA	
Cobalt	NS	15 B	12.5 B	0.8 BJ	4.5 B	4.2 B	3.8 B	NA	NA	NA	NA	
Copper	1,300	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	NA	NA	NA	NA	
Iron	300	29700	5520 J	< 6.3	45300 J	138000	142000	NA	NA	NA	NA	
Lead	5	1.3 B	< 0.94	< 0.94	1.6 B	< 0.94	< 0.94	NA	NA	NA	NA	
Magnesium	NS	9450	18900 J	3870 B	3830 BJ	11200 J	12700 J	NA	NA	NA	NA	
Manganese	50	5360	11100	6 BJ	630	2550	2750	NA	NA	NA	NA	
Mercury	2	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	NA	NA	NA	
Nickel	100	6.1 B	3 B	1.6 BJ	11.7 B	5.4 B	5.2 B	NA	NA	NA	NA	
Potassium	NS	7850 B	13500 J	961 BJ	2090 B	7020 BJ	7890 B	NA	NA	NA	NA	
Selenium	40	< 0.73	< 0.73	< 0.73	2.4 B	2.3 B	2 B	NA	NA	NA	NA	
Silver	40	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	NA	NA	NA	NA	
Sodium	50,000	7740 B	15000 J	3870 B	3580 BJ	28900 J	32200 J	NA	NA	NA	NA	
Thallium	2 [10]	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	NA	NA	NA	NA	
Vanadium	NS	< 0.49	< 0.49	< 0.49	< 0.49	0.5 B	< 0.49	NA	NA	NA	NA	
Zinc	2000	< 2.7	6.1 BJ	11 BJ	23.2 J	3.5 B	2.9 B	NA	NA	NA	NA	
Other												
Alkalinity, total (as CaCO ₃)	NS	275000	334000	42400	135000	519000	509000	NA	NA	NA	NA	
Nitrogen, Nitrate + Nitrite	NS	< 100	< 100	< 100	< 100	< 100	< 100	< 100	NA	NA	NA	
Phosphorus, Total	NS	150	< 50	< 50	800	460	920	NA	NA	NA	NA	
Chloride	250000	2500	2400	< 2000	< 2000	10100	10400	NA	NA	NA	NA	
Nitrate	10000	< 110	< 110	< 110	< 110	< 110	< 110	< 110	NA	NA	NA	
Nitrogen, Nitrite	1,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	
Sulfate	250000	< 10000	23200	12000	< 10000	< 10000	< 10000	NA	NA	NA	NA	
Alkalinity, Bicarbonate	NS	275000	334000	42400	135000	519000	509000	NA	NA	NA	NA	
Alkalinity, Carbonate	NS	< 5000	139000	< 5000	155000	< 5000	< 5000	NA	NA	NA	NA	
Cyanide	100	< 10	< 10	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	

**Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey**

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location Sample Name	GWQS ¹	Field Blanks																
		FIELD BLANK		FB		FIELD BLANK		FIELD BLANK		FIELDBLANK		TRIP BLANK	TRIPBLANK	TRIPBLANK				
		10/11/2007	Final	10/12/2007	Final	10/12/2007	Final	10/15/2007	Final	10/16/2007	Final	10/17/2007	Final	10/8/2007	Final	10/9/2007	Final	10/10/2007
SVOCs																		
1,1'-Biphenyl	400	< 0.39	< 0.39	< 0.33		< 0.34		< 0.24		< 0.25		NA	NA	NA	NA	NA	NA	
2,4,5-Trichlorophenol	700	< 2.3	< 2.3	< 1.9		< 2		< 1.2		< 1.2		NA	NA	NA	NA	NA	NA	
2,4,6-Trichlorophenol	20	< 1.5	< 1.5	< 1.3		< 1.3		< 1.1		< 1.1		NA	NA	NA	NA	NA	NA	
2,4-Dichlorophenol	20	< 1.9	< 1.9	< 1.6		< 1.6		< 1.5		< 1.6		NA	NA	NA	NA	NA	NA	
2,4-Dimethylphenol	100	< 2	< 2	< 1.6		< 1.7		< 1.8		< 1.8		NA	NA	NA	NA	NA	NA	
2,4-Dinitrophenol	40	< 1.1	< 1.1	< 0.89		< 0.92		< 1.2		< 1.2		NA	NA	NA	NA	NA	NA	
2,4-Dinitrotoluene	NS	< 1	< 1	< 0.86		< 0.89		< 0.58		< 0.54		< 0.6		NA	NA	NA	NA	
2,6-Dinitrotoluene	NS	< 0.67	< 0.67	< 0.56		< 0.58		< 0.54		< 0.56		NA	NA	NA	NA	NA	NA	
2-Chloronaphthalene	600	< 1.2	< 1.2	< 0.98		< 1		< 0.21		< 0.22		NA	NA	NA	NA	NA	NA	
2-Chlorophenol	40	< 1.1	< 1.1	< 0.95		< 0.98		< 0.94		< 0.97		NA	NA	NA	NA	NA	NA	
2-Methylnaphthalene	NS	< 0.49	< 0.49	< 0.41		< 0.42		< 0.82		< 0.85		NA	NA	NA	NA	NA	NA	
2-Methylphenol	NS	< 1.6	< 1.6	< 1.4		< 1.4		< 1.1		< 1.2		NA	NA	NA	NA	NA	NA	
2-Nitroaniline	NS	< 0.8	< 0.79	< 0.66		< 0.68		< 0.53		< 0.55		NA	NA	NA	NA	NA	NA	
2-Nitrophenol	NS	< 2.2	< 2.2	< 1.8		< 1.9		< 1.6		< 1.7		NA	NA	NA	NA	NA	NA	
3&4-Methylphenol	NS	< 1.5	< 1.5	< 1.3		< 1.3		< 1.2		< 1.2		NA	NA	NA	NA	NA	NA	
3,3'-Dichlorobenzidine	30	< 1.5	< 1.5	< 1.2		< 1.3		< 1		< 1.1		NA	NA	NA	NA	NA	NA	
3-Nitroaniline	NS	< 1.5	< 1.5	< 1.3		< 1.3		< 0.35		< 0.36		NA	NA	NA	NA	NA	NA	
4,6-Dinitro-2-methylphenol	NS	< 0.87	< 0.86	< 0.72		< 0.74		< 2.4		< 2.5		NA	NA	NA	NA	NA	NA	
4-Bromophenyl phenyl ether	NS	< 0.36	< 0.36	< 0.3		< 0.31		< 0.4		< 0.41		NA	NA	NA	NA	NA	NA	
4-Chloro-3-Methylphenol	NS	< 1.4	< 1.4	< 1.2		< 1.2		< 1.3		< 1.3		NA	NA	NA	NA	NA	NA	
4-Chloroaniline	30	< 0.48	< 0.47	< 0.4		< 0.41		< 0.37		< 0.39		NA	NA	NA	NA	NA	NA	
4-Chlorophenyl phenyl ether	NS	< 0.52	< 0.51	< 0.43		< 0.44		< 0.31		< 0.32		NA	NA	NA	NA	NA	NA	
4-Nitroaniline	NS	< 0.87	< 0.86	< 0.72		< 0.74		< 0.63		< 0.66		NA	NA	NA	NA	NA	NA	
4-Nitrophenol	NS	< 1	< 1	< 0.84		< 0.87		< 1.7		< 1.8		NA	NA	NA	NA	NA	NA	
Acetophenone	700	< 0.45	< 0.45	< 0.37		< 0.39		< 0.39		< 0.4		NA	NA	NA	NA	NA	NA	
Atrazine	3	< 0.2	< 0.19	< 0.16		< 0.17		< 0.3		< 0.31		NA	NA	NA	NA	NA	NA	
Benzaldehyde	NS	< 0.32	< 0.32	< 0.27		< 0.27		< 0.82		< 0.85		NA	NA	NA	NA	NA	NA	
Benzyl butyl phthalate	100	< 0.71	< 0.71	< 0.59		< 0.61		< 0.69		< 0.71		NA	NA	NA	NA	NA	NA	
bis(2-Chloroethoxy)methane	NS	< 0.79	< 0.78	< 0.65		< 0.67		< 0.34		< 0.35		NA	NA	NA	NA	NA	NA	
bis(2-Chloroethyl)ether	7	< 0.64	< 0.63	< 0.53		< 0.55		< 0.72		< 0.75		NA	NA	NA	NA	NA	NA	
bis(2-Chloroisopropyl)ether	300	< 0.89	< 0.88	< 0.74		< 0.76		< 0.62		< 0.64		NA	NA	NA	NA	NA	NA	
bis(2-Ethylhexyl)phthalate	3	< 0.8	<u>5.4</u>	< 0.66		< 0.68		< 0.94		< 0.98		NA	NA	NA	NA	NA	NA	
Caprolactam	NS	< 0.38	< 0.38	< 0.32		< 0.32		< 0.53		< 0.55		NA	NA	NA	NA	NA	NA	
Carbazole	NS	< 0.44	< 0.43	< 0.36		< 0.38		< 0.43		< 0.44		NA	NA	NA	NA	NA	NA	
Dibenzofuran	NS	< 0.41	< 0.41	< 0.34		< 0.35		< 0.25		< 0.25		NA	NA	NA	NA	NA	NA	
Diethyl phthalate	6000	< 0.47	< 0.46	< 0.39		< 0.4		< 0.37		< 0.38		NA	NA	NA	NA	NA	NA	
Dimethyl phthalate	NS	< 0.4	< 0.39	< 0.33		< 0.34		< 0.36		< 0.37		NA	NA	NA	NA	NA	NA	
di-n-butyl phthalate	700	< 0.71	< 0.7	< 0.59		< 0.61		< 0.43		< 0.44		NA	NA	NA	NA	NA	NA	
di-n-octylphthalate	100	< 0.69	< 0.68	< 0.57		< 0.59		< 0.51		< 0.53		NA	NA	NA	NA	NA	NA	
Hexachlorobutadiene	1	< 0.21	< 0.21	< 0.18		< 0.18		< 0.14		< 0.14		NA	NA	NA	NA	NA	NA	
Hexachlorocyclopentadiene	40	< 0.49	< 0.48	< 0.41		< 0.42		< 0.11		< 0.11		NA	NA	NA	NA	NA	NA	
Hexachloroethane	7	< 0.34	< 0.34	< 0.28		< 0.29		< 0.17		< 0.18		NA	NA	NA	NA	NA	NA	
Isophrone	40	< 0.71	< 0.7	< 0.59		< 0.61		< 0.53		< 0.54		NA	NA	NA	NA	NA	NA	
Nitrobenzene	6	< 0.5	< 0.5	< 0.42		< 0.43		< 0.76		< 0.78		NA	NA	NA	NA	NA	NA	
N-Nitroso-di-n-Propylamine	10	< 0.56	< 0.56	< 0.47		< 0.48												

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location Sample Name Sample Date Validation Status	GWQS ¹	Field Blanks											
		FIELD BLANK		FB		FIELD BLANK		FIELD BLANK		FIELDBLANK	TRIP BLANK	TRIPBLANK	TRIPBLANK
		10/11/2007 Final	10/12/2007 Final	10/12/2007 Final	10/15/2007 Final	10/16/2007 Final	10/17/2007 Final	10/8/2007 Final	10/9/2007 Final	10/10/2007 Final			
SVOCs BY SIM													
Acenaphthene	400	< 0.021	< 0.02	< 0.017	< 0.018	< 0.018	< 0.019	NA	NA	NA			
Acenaphthylene	NS	< 0.011	< 0.011	< 0.0095	< 0.0098	< 0.01	< 0.011	NA	NA	NA			
Anthracene	2000	< 0.025	< 0.025	< 0.021	< 0.022	< 0.022	< 0.023	NA	NA	NA			
Benzo(a)anthracene	0.1 [0.2]	< 0.0082	< 0.0081	< 0.0068	< 0.007	< 0.0073	< 0.0076	NA	NA	NA			
Benzo(a)pyrene	0.1 [0.2]	< 0.02	< 0.02	< 0.017	< 0.017	< 0.018	< 0.019	NA	NA	NA			
Benzo(b)fluoranthene	0.2 [10]	< 0.044	< 0.043	< 0.036	< 0.037	< 0.039	< 0.04	NA	NA	NA			
Benzo(g,h,i)perylene	NS	< 0.021	< 0.021	< 0.018	< 0.018	< 0.019	< 0.02	NA	NA	NA			
Benzo(k)fluoranthene	0.5	< 0.019	< 0.019	< 0.016	< 0.016	< 0.017	< 0.017	NA	NA	NA			
Chrysene	5	< 0.02	< 0.02	< 0.017	< 0.017	< 0.018	< 0.019	NA	NA	NA			
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.02	< 0.02	< 0.016	< 0.017	< 0.018	< 0.018	NA	NA	NA			
Fluoranthene	300	< 0.011	< 0.011	< 0.009	< 0.0093	< 0.0097	< 0.01	NA	NA	NA			
Fluorene	300	< 0.024	< 0.024	< 0.02	< 0.021	< 0.022	< 0.022	NA	NA	NA			
Hexachlorobenzene	0.02 [10]	< 0.024*	< 0.024*	< 0.02	< 0.021*	< 0.022*	< 0.022*	NA	NA	NA			
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.013	< 0.013	< 0.011	< 0.011	< 0.012	< 0.012	NA	NA	NA			
Naphthalene	300	< 0.031	< 0.031	< 0.026	< 0.027	< 0.028	< 0.029	NA	NA	NA			
Pentachlorophenol	0.3 [1]	< 0.36* R	< 0.36*	< 0.3	< 0.31*	< 0.32*	< 0.33*	NA	NA	NA			
Phenanthrene	NS	< 0.025	< 0.025	< 0.021	< 0.022	< 0.023	< 0.023	NA	NA	NA			
Pyrene	200	< 0.017	< 0.017	< 0.014	< 0.014	< 0.015	< 0.016	NA	NA	NA			
PCBs													
PCB 1016	0.5	< 0.11	< 0.1	< 0.094	< 0.1	< 0.1	< 0.1	NA	NA	NA			
PCB 1221	0.5	< 0.54	< 0.52	< 0.47	< 0.52	< 0.51	< 0.52	NA	NA	NA			
PCB 1232	0.5	< 0.45	< 0.43	< 0.39	< 0.43	< 0.42	< 0.43	NA	NA	NA			
PCB 1242	0.5	< 0.19	< 0.18	< 0.16	< 0.18	< 0.18	< 0.18	NA	NA	NA			
PCB 1248	0.5	< 0.18	< 0.17	< 0.15	< 0.17	< 0.16	< 0.17	NA	NA	NA			
PCB 1254	0.5	< 0.13	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	NA	NA	NA			
PCB 1260	0.5	< 0.13	< 0.13	< 0.12	< 0.13	< 0.13	< 0.13	NA	NA	NA			
Total PCBs	0.5	0	0	0	0	0	0	NA	NA	NA			
Metals - Total													
Aluminum	200	< 26	47.7 B	< 26	< 26	< 26	< 26	NA	NA	NA			
Antimony	6	1.3 B	1.8 B	< 5.7	< 0.9	1.3 B	1.2 B	NA	NA	NA			
Arsenic	3 [8]	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	NA	NA	NA			
Barium	2000	< 3	< 3	< 3	< 3	< 3	< 3	NA	NA	NA			
Beryllium	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	NA	NA			
Cadmium	4	< 0.24	0.3 B	< 0.24	< 0.24	< 0.24	< 0.24	NA	NA	NA			
Calcium	NS	< 22	326 BJ	34.2 B	36.6 B	< 22	53.5 B	NA	NA	NA			
Chromium	70	< 0.53	0.6 B	1.4 B	< 0.53	< 0.53	1.1 B	NA	NA	NA			
Cobalt	NS	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	0.2 B	NA	NA	NA			
Copper	1,300	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	NA	NA	NA			
Iron	300	7.3 B	394	17 B	18.9 B	< 6.3	9.3 B	NA	NA	NA			
Lead	5	< 0.94	2.8 B	< 0.94	< 0.94	1.3 B	< 0.94	NA	NA	NA			
Magnesium	NS	< 25	84.1 B	< 25	< 25	< 25	< 25	NA	NA	NA			
Manganese	50	0.4 B	3.4 B	0.2 B	0.6 B	0.2 B	0.3 B	NA	NA	NA			
Mercury	2	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	NA	NA			
Nickel	100	< 0.73	1 B	< 0.73	< 0.73	< 0.73	< 0.73	NA	NA	NA			
Potassium	NS	< 31	< 31	< 31	< 31	< 31	< 31	NA	NA	NA			
Selenium	40	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	NA	NA	NA			
Silver	40	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	NA	NA	NA			
Sodium	50,000	< 19	543 BJ	40.3 B	< 19	< 19	22.1 B	NA	NA	NA			
Thallium	2 [10]	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	NA	NA	NA			
Vanadium	NS	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	NA	NA	NA			
Zinc	2000	6.3 B	186	5.9 B	3.2 B	< 2.7	2.8 B	NA	NA	NA			

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location Sample Name	Field Blanks																		
	GWQS ¹	FIELD BLANK		FB	FIELD BLANK		FIELD BLANK		FIELDBLANK		TRIP BLANK	TRIPBLANK	TRIPBLANK						
		10/11/2007	Final	10/12/2007	Final	10/12/2007	Final	10/15/2007	Final	10/16/2007	Final	10/17/2007	Final	10/8/2007	Final	10/9/2007	Final	10/10/2007	Final
Metals - Dissolved																			
Aluminum	200	NA	< 26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Antimony	6	NA	< 0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	3 [8]	NA	< 1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	2000	NA	< 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	1	NA	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	4	NA	< 0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NS	NA	364 BJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	70	NA	< 0.53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	NS	NA	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	1,300	NA	< 3.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	300	NA	23 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	5	NA	< 0.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	NS	NA	77.6 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	50	NA	1.9 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	2	NA	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	100	NA	< 0.73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	NS	NA	< 31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	40	NA	< 0.73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	40	NA	< 0.83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	50,000	NA	700 BJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	2 [10]	NA	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	NS	NA	< 0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	2000	NA	192	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Other																			
Alkalinity, total (as CaCO ₃)	NS	NA	< 5000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrogen, Nitrate + Nitrite	NS	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phosphorus, Total	NS	NA	< 50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloride	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrate	10000	NA	< 110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrogen, Nitrite	1,000	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Alkalinity, Bicarbonate	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Alkalinity, Carbonate	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cyanide	100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	

Table 5: Summary of October 2007 Groundwater Analytical Results
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location Sample Name	GWQS ¹	Trip Blanks				
		TRIP BLANK 10/11/2007 Final	TRIP BLANK 10/12/2007 Final	TRIP BLANK 10/15/2007 Final	TRIP BLANK 10/16/2007 Final	TRIPBLANK 10/17/2007 Final
Validation Status						
VOCs						
1,1,1-Trichloroethane	30	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2,2-Tetrachloroethane	1	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichloroethane	3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
1,1-Dichloroethane	50	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	1	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	9	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 0.8*	< 0.8*	< 0.8*	< 0.8*	< 0.8*
1,2-Dibromoethane	0.03 [0.5]	< 0.45*	< 0.45*	< 0.45*	< 0.45*	< 0.45*
1,2-Dichlorobenzene	600	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	2	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-Dichloropropane	1	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,3-Dichlorobenzene	600	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,4-Dichlorobenzene	75	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
2-Butanone (MEK)	300	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
2-Hexanone	NS	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94
4-methyl-2-pentanone (MIBK)	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Acetone	6000	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Benzene	1	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Bromodichloromethane	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Bromoform	4	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Bromomethane	10	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Carbon disulfide	700	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Carbon tetrachloride	1	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	50	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chloroethane	NS	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
Chloroform	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chloromethane	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,2-Dichloroethene	70	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
cis-1,3-Dichloropropene	NS	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Cyclohexane	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
Dibromochloromethane	1	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Dichlorodifluoromethane	1,000	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Isopropylbenzene	700	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Methyl acetate	7000	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Methyl tert butyl ether	70	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Methylcyclohexane	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methylene chloride	3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
o-Xylene	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Styrene	100	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethene	1	< 0.28 J	< 0.28 J	< 0.28	< 0.28	< 0.28
Toluene	1000	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trans-1,2-dichloroethene	100	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
trans-1,3-Dichloropropene	NS	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Trichloroethene	1	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Trichlorofluoromethane	2000	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Vinyl Chloride	1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Xylene, -m,p	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Xylenes	1,000	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Total TIC, Volatile	NS	0	0	0	0	0

Table 5: Summary of October 2007 Groundwater Analytical Results**Ringwood Mines/Landfill Site, Ringwood, New Jersey**

Location	Sample Name	Trip Blanks				
		GWQS ¹	TRIP BLANK 10/11/2007 Final	TRIP BLANK 10/12/2007 Final	TRIP BLANK 10/15/2007 Final	TRIP BLANK 10/16/2007 Final
Validation Status						
SVOCs						
1,1'-Biphenyl	400	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	700	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	20	NA	NA	NA	NA	NA
2,4-Dichlorophenol	20	NA	NA	NA	NA	NA
2,4-Dimethylphenol	100	NA	NA	NA	NA	NA
2,4-Dinitrophenol	40	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NS	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NS	NA	NA	NA	NA	NA
2-Chloronaphthalene	600	NA	NA	NA	NA	NA
2-Chlorophenol	40	NA	NA	NA	NA	NA
2-Methylnaphthalene	NS	NA	NA	NA	NA	NA
2-Methylphenol	NS	NA	NA	NA	NA	NA
2-Nitroaniline	NS	NA	NA	NA	NA	NA
2-Nitrophenol	NS	NA	NA	NA	NA	NA
3&4-Methylphenol	NS	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	30	NA	NA	NA	NA	NA
3-Nitroaniline	NS	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NS	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NS	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NS	NA	NA	NA	NA	NA
4-Chloroaniline	30	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NS	NA	NA	NA	NA	NA
4-Nitroaniline	NS	NA	NA	NA	NA	NA
4-Nitrophenol	NS	NA	NA	NA	NA	NA
Acetophenone	700	NA	NA	NA	NA	NA
Atrazine	3	NA	NA	NA	NA	NA
Benzaldehyde	NS	NA	NA	NA	NA	NA
Benzyl butyl phthalate	100	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NS	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	7	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	300	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	3	NA	NA	NA	NA	NA
Caprolactam	NS	NA	NA	NA	NA	NA
Carbazole	NS	NA	NA	NA	NA	NA
Dibenzofuran	NS	NA	NA	NA	NA	NA
Diethyl phthalate	6000	NA	NA	NA	NA	NA
Dimethyl phthalate	NS	NA	NA	NA	NA	NA
di-n-butyl phthalate	700	NA	NA	NA	NA	NA
di-n-octylphthalate	100	NA	NA	NA	NA	NA
Hexachlorobutadiene	1	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	40	NA	NA	NA	NA	NA
Hexachloroethane	7	NA	NA	NA	NA	NA
Isophrone	40	NA	NA	NA	NA	NA
Nitrobenzene	6	NA	NA	NA	NA	NA
N-Nitroso-di-n-Propylamine	10	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	10	NA	NA	NA	NA	NA
Phenol	2000	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	NA	NA	NA	NA	NA

Table 5: Summary of October 2007 Groundwater Analytical Results**Ringwood Mines/Landfill Site, Ringwood, New Jersey**

Location	Sample Name	Trip Blanks				
		GWQS ¹	TRIP BLANK 10/11/2007 Final	TRIP BLANK 10/12/2007 Final	TRIP BLANK 10/15/2007 Final	TRIP BLANK 10/16/2007 Final
	Validation Status					
SVOCs BY SIM						
Acenaphthene	400	NA	NA	NA	NA	NA
Acenaphthylene	NS	NA	NA	NA	NA	NA
Anthracene	2000	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.1 [0.2]	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.1 [0.2]	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.2 [10]	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NS	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	NA	NA	NA	NA	NA
Chrysene	5	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.3 [0.5]	NA	NA	NA	NA	NA
Fluoranthene	300	NA	NA	NA	NA	NA
Fluorene	300	NA	NA	NA	NA	NA
Hexachlorobenzene	0.02 [10]	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.2 [10]	NA	NA	NA	NA	NA
Naphthalene	300	NA	NA	NA	NA	NA
Pentachlorophenol	0.3 [1]	NA	NA	NA	NA	NA
Phenanthrene	NS	NA	NA	NA	NA	NA
Pyrene	200	NA	NA	NA	NA	NA
PCBs						
PCB 1016	0.5	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	NA	NA	NA	NA
Total PCBs	0.5	NA	NA	NA	NA	NA
Metals - Total						
Aluminum	200	NA	NA	NA	NA	NA
Antimony	6	NA	NA	NA	NA	NA
Arsenic	3 [8]	NA	NA	NA	NA	NA
Barium	2000	NA	NA	NA	NA	NA
Beryllium	1	NA	NA	NA	NA	NA
Cadmium	4	NA	NA	NA	NA	NA
Calcium	NS	NA	NA	NA	NA	NA
Chromium	70	NA	NA	NA	NA	NA
Cobalt	NS	NA	NA	NA	NA	NA
Copper	1,300	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA
Magnesium	NS	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA
Potassium	NS	NA	NA	NA	NA	NA
Selenium	40	NA	NA	NA	NA	NA
Silver	40	NA	NA	NA	NA	NA
Sodium	50,000	NA	NA	NA	NA	NA
Thallium	2 [10]	NA	NA	NA	NA	NA
Vanadium	NS	NA	NA	NA	NA	NA
Zinc	2000	NA	NA	NA	NA	NA

Table 5: Summary of October 2007 Groundwater Analytical Results**Ringwood Mines/Landfill Site, Ringwood, New Jersey**

Location Sample Name	GWQS ¹	Trip Blanks				
		TRIP BLANK 10/11/2007 Final	TRIP BLANK 10/12/2007 Final	TRIP BLANK 10/15/2007 Final	TRIP BLANK 10/16/2007 Final	TRIPBLANK 10/17/2007 Final
Metals - Dissolved						
Aluminum	200	NA	NA	NA	NA	NA
Antimony	6	NA	NA	NA	NA	NA
Arsenic	3 [8]	NA	NA	NA	NA	NA
Barium	2000	NA	NA	NA	NA	NA
Beryllium	1	NA	NA	NA	NA	NA
Cadmium	4	NA	NA	NA	NA	NA
Calcium	NS	NA	NA	NA	NA	NA
Chromium	70	NA	NA	NA	NA	NA
Cobalt	NS	NA	NA	NA	NA	NA
Copper	1,300	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA
Magnesium	NS	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA
Potassium	NS	NA	NA	NA	NA	NA
Selenium	40	NA	NA	NA	NA	NA
Silver	40	NA	NA	NA	NA	NA
Sodium	50,000	NA	NA	NA	NA	NA
Thallium	2 [10]	NA	NA	NA	NA	NA
Vanadium	NS	NA	NA	NA	NA	NA
Zinc	2000	NA	NA	NA	NA	NA
Other						
Alkalinity, total (as CaCO ₃)	NS	NA	NA	NA	NA	NA
Nitrogen, Nitrate + Nitrite	NS	NA	NA	NA	NA	NA
Phosphorus, Total	NS	NA	NA	NA	NA	NA
Chloride	250000	NA	NA	NA	NA	NA
Nitrate	10000	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1,000	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA
Alkalinity, Bicarbonate	NS	NA	NA	NA	NA	NA
Alkalinity, Carbonate	NS	NA	NA	NA	NA	NA
Cyanide	100	NA	NA	NA	NA	NA

Table 5. Summary of October 2007 Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Results are presented in microgram per liter (ug/L).

< Not detected.
NA Not analyzed.
NS No standard.
B Inorganic: estimated result is between the detection limit and quantification limit.
J Estimated result.
R Rejected result.

¹ Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria, select 2004 criteria are presented in [].

Bold Value is above the Ground Water Quality Standard
* Detection limit is above the 2005 GWQS standard.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well Sample Name Sample Date	GWQS ¹	OB-01					
		OB-1 8/2/1984	OB-1 11/1/2004	OB-1 12/30/2004	OB-1 9/26/2006	OB-1 4/6/2007	OB-1 10/9/2007
VOC							
Benzene	1	< 10	< 1	< 0.31	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	< 10	< 1	< 0.27	< 0.2	< 0.2	< 0.21
Toluene	1000	< 10	< 1	< 0.14	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	< 1	< 0.36	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	NA	< 1	< 0.17	< 0.31	< 0.31	< 0.2
Xylenes	1,000	NA	< 1	< 0.17	< 0.31	< 0.31	< 0.2
PCBs							
PCB 1016	0.5	< 0.5	< 0.5	< 0.075	< 0.094	< 0.1	< 0.094
PCB 1221	0.5	< 0.5	< 0.5	< 0.085	< 0.47	< 0.5	< 0.47
PCB 1232	0.5	< 0.5	< 0.5	< 0.12	< 0.39	< 0.41	< 0.39
PCB 1242	0.5	< 0.5	< 0.5	< 0.13	< 0.16	< 0.17	< 0.16
PCB 1248	0.5	< 0.5	< 0.5	< 0.072	< 0.15	< 0.16	< 0.15
PCB 1254	0.5	< 0.5	< 0.5	< 0.072	< 0.11	< 0.12	< 0.11
PCB 1260	0.5	< 0.5	< 0.5	< 0.1	< 0.12	< 0.12	< 0.12
Total PCBs	0	0	0	0	0	0	0
Metals - Total							
Arsenic	3	< 5	< 5	< 5	< 1.5 J	< 1.5	< 1.1
Iron	300	<u>1100</u>	< 100	<u>869</u>	155	80.3 B	201
Lead	5	< 50	< 3	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	<u>120</u>	< 15	< 15	2.9 BJ	1.4 B	2.4 B
Metals - Dissolved							
Arsenic	3	NA	< 5	< 5	1.8 BJ	< 1.5	< 1.1
Iron	300	NA	< 100	< 100	< 67	< 25	< 6.3
Lead	5	NA	< 3	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	NA	< 15	< 15	3.7 BJ	1.1 B	< 0.17

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well	Sample Name	GWQS ¹	OB-02				
			OB-2 8/2/1984	OB-2 6/16/1986	OB-2 10/13/2004	OB-2 10/2/2006	OB-2 4/6/2007
VOC							
Benzene	1	< 10	< 10	< 0.5	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	NA	NA	NA	< 0.31	< 0.31	< 0.2
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2
PCBs							
PCB 1016	0.5	< 0.5	NA	< 0.075 J	< 0.094	< 0.094	< 0.1
PCB 1221	0.5	< 0.5	NA	< 0.085	< 0.47	< 0.47	< 0.51
PCB 1232	0.5	< 0.5	NA	< 0.12	< 0.39	< 0.39	< 0.42
PCB 1242	0.5	< 0.5	NA	< 0.13	< 0.16	< 0.16	< 0.18
PCB 1248	0.5	< 0.5	NA	< 0.072	< 0.15	< 0.15	< 0.16
PCB 1254	0.5	< 0.5	NA	< 0.072	< 0.11	< 0.11	< 0.12
PCB 1260	0.5	< 0.5	NA	< 0.1	< 0.12	< 0.12	< 0.13
Total PCBs	0	NA	0	0	0	0	0
Metals - Total							
Arsenic	3	< 5	< 2	< 5	< 1.5	< 1.5	< 1.1
Iron	300	<u>4600</u>	NA	156	95.8 B	< 25	200 J
Lead	5	< 50	< 50	< 3	< 2.6	3.2	< 0.94
Manganese	50	<u>440</u>	NA	< 15	1.5 B	0.72 B	8.7 BJ
Metals - Dissolved							
Arsenic	3	NA	NA	< 5	2	< 1.5	< 1.1
Iron	300	NA	NA	< 100	67.3 B	< 25	14.9 BJ
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	NA	NA	< 15	1.5 B	0.83 B	3.3 BJ

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS ¹	OB-03								
			OB-3 8/2/1984	OB-3 6/16/1986	OB-3 10/30/1989	OB-3 1/30/1990	OB-3 4/24/1990	OB-3 7/24/1990	OB-3 10/13/2004	OB-3 9/28/2006	OB-3 4/3/2007
VOC											
Benzene	1	< 10	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	< 10	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.2	< 0.2	< 0.21
Toluene	1000	< 10	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	NA	< 2	< 2	< 2	< 2	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	NA	NA	< 2	< 2	< 2	< 2	NA	< 0.31	< 0.31	< 0.2
Xylenes	1,000	NA	NA	NA	NA	NA	NA	< 1	< 0.31	< 0.31	< 0.2
PCBs											
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.075	< 0.098	< 0.11	< 0.1
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.085	< 0.49	< 0.53	< 0.5
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.12	< 0.41	< 0.44	< 0.41
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.13	< 0.17	< 0.18	< 0.17
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.072	< 0.16	< 0.17	< 0.16
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.072	< 0.11	< 0.12	< 0.12
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.1 J	< 0.12	< 0.13	< 0.12
Total PCBs	0	NA	NA	NA	NA	NA	NA	0	0	0	0
Metals - Total											
Arsenic	3	< 5	< 2	< 2	< 2	< 5	< 5	< 5	< 1.5	< 1.5	< 1.1
Iron	300	<u>9300</u>	NA	<u>35600 JMt</u>	<u>750</u>	<u>124000</u>	<u>17000</u>	<u>2000</u>	<u>1540</u>	250	<u>1860 J</u>
Lead	5	< 50	< 50	< 5	< 5	< 5	< 5	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	<u>140</u>	NA	<u>117</u>	< 10	<u>58</u>	<u>69</u>	16	8.3 B	2 B	9 BJ
Metals - Dissolved											
Arsenic	3	NA	NA	NA	NA	NA	NA	< 5	< 1.5	< 1.5	< 1.1
Iron	300	NA	NA	NA	NA	NA	NA	< 100	81.1 B	96 B	47.7 BJ
Lead	5	NA	NA	NA	NA	NA	NA	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	NA	NA	NA	NA	NA	NA	< 15	3.8 BJ	2.1 B	6.5 BJ

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well	Sample Name	GWQS ¹	OB-04				
			OB-4 8/2/1984	OB-4 6/16/1986	OB-4 10/14/2004	OB-4 9/29/2006	OB-4 4/6/2007
VOC							
Benzene	1	< 10	< 10	< 0.5	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	NA	NA	NA	< 0.31	< 0.31	< 0.2
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2
PCBs							
PCB 1016	0.5	< 0.5	NA	< 0.084	< 0.1	< 0.094	< 0.1
PCB 1221	0.5	< 0.5	NA	< 0.094	< 0.52	< 0.47	< 0.52
PCB 1232	0.5	< 0.5	NA	< 0.14	< 0.43	< 0.39	< 0.43
PCB 1242	0.5	< 0.5	NA	< 0.15	< 0.18	< 0.16	< 0.18
PCB 1248	0.5	< 0.5	NA	< 0.08	< 0.17	< 0.15	< 0.17
PCB 1254	0.5	< 0.5	NA	< 0.08	< 0.12	< 0.11	< 0.12
PCB 1260	0.5	< 0.5	NA	< 0.11	< 0.13	< 0.12	< 0.13
Total PCBs	0	NA	0	0	0	0	0
Metals - Total							
Arsenic	3	< 5	< 2	< 5	< 1.5	< 1.5	< 1.1
Iron	300	33000	NA	7070	8480	19400	5700
Lead	5	< 50	< 50	< 3	< 2.6	4.1	< 0.94
Manganese	50	4100	NA	2720 J	2390	2100	1820
Metals - Dissolved							
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	< 1.1
Iron	300	NA	NA	6080	6380	18000	675
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	NA	NA	2720 J	2370	2070	1870

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well	Sample Name	GWQS ¹	OB-05				
			OB-5 8/2/1984	OB-5 6/13/1986	OB-5 10/15/2004	OB-5 10/2/2006	OB-5 4/4/2007
VOC							
Benzene	1	< 10	< 10	< 0.5	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	NA	NA	NA	< 0.31	< 0.31	< 0.2
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2
PCBs							
PCB 1016	0.5	< 0.5	NA	< 0.075	< 0.099	< 0.1	< 0.1
PCB 1221	0.5	< 0.5	NA	< 0.085	< 0.49	< 0.51	< 0.51
PCB 1232	0.5	< 0.5	NA	< 0.12	< 0.41	< 0.42	< 0.42
PCB 1242	0.5	< 0.5	NA	< 0.13	< 0.17	< 0.18	< 0.18
PCB 1248	0.5	< 0.5	NA	< 0.072	< 0.16	< 0.17	< 0.16
PCB 1254	0.5	< 0.5	NA	< 0.072	< 0.11	< 0.12	< 0.12
PCB 1260	0.5	< 0.5	NA	< 0.1	< 0.12	< 0.13	< 0.13
Total PCBs	0	NA	0	0	0	0	0
Metals - Total							
Arsenic	3	< 5	< 2	< 5	< 1.5	< 1.5	< 1.1
Iron	300	<u>31000</u>	NA	<u>20500</u>	<u>24600</u>	<u>27900</u>	<u>20900</u>
Lead	5	< 50	< 50	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	<u>1100</u>	NA	<u>1490</u>	<u>2970</u>	<u>2020</u>	<u>1500</u>
Metals - Dissolved							
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	< 1.1
Iron	300	NA	NA	<u>17100</u>	<u>20700</u>	<u>24900</u>	<u>5100</u>
Lead	5	NA	NA	< 3	2.6 B	< 2.8	< 0.94
Manganese	50	NA	NA	<u>1520</u>	<u>2730</u>	<u>1960</u>	<u>1530</u>

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well Sample Name Sample Date	GWQS ¹	OB-06					
		OB-6 8/2/1984	OB-6 (DUP) 8/2/1984	OB-6 11/2/2004	OB-6 12/30/2004	OB-6 9/26/2006	OB-6 4/6/2007
VOC							
Benzene	1	< 10	NA	< 0.31	< 0.31	< 0.21	< 0.21
Ethylbenzene	700	< 10	NA	< 0.27	< 0.27	< 0.2	< 0.21
Toluene	1000	< 10	NA	< 0.14	< 0.14	< 0.2	< 0.21
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	< 0.36	< 0.36	< 0.42	< 0.42
Xylene, -o	NS	NA	NA	< 0.17	< 0.17	< 0.31	< 0.31
Xylenes	1,000	NA	NA	< 0.17	< 0.17	< 0.31	< 0.2
PCBs							
PCB 1016	0.5	< 0.5	NA	< 0.075	< 0.075	< 0.1	< 0.11
PCB 1221	0.5	< 0.5	NA	< 0.085	< 0.085	< 0.52	< 0.53
PCB 1232	0.5	< 0.5	NA	< 0.12	< 0.12	< 0.43	< 0.44
PCB 1242	0.5	< 0.5	NA	< 0.13	< 0.13	< 0.18	< 0.19
PCB 1248	0.5	< 0.5	NA	< 0.072	< 0.072	< 0.17	< 0.17
PCB 1254	0.5	< 0.5	NA	< 0.072	< 0.072	< 0.12	< 0.12
PCB 1260	0.5	< 0.5	NA	< 0.1	< 0.1	< 0.13	< 0.13
Total PCBs	0	NA	0	0	0	0	0
Metals - Total							
Arsenic	3	< 5	< 5	< 5	< 5	< 1.5	< 1.5
Iron	300	<u>3700</u>	<u>4100</u>	<u>30900</u>	<u>2290</u>	<u>4180</u>	<u>910</u>
Lead	5	< 50	NA	< 3	< 3	< 2.6	< 2.8
Manganese	50	<u>90</u>	<u>90</u>	<u>2040</u>	<u>1770</u>	<u>2480</u>	<u>1910</u>
Metals - Dissolved							
Arsenic	3	NA	NA	< 5	< 5	< 1.5	< 1.5
Iron	300	NA	NA	<u>24900</u>	<u>2180</u>	<u>3190</u>	<u>708</u>
Lead	5	NA	NA	< 3	< 3	< 2.6	< 2.8
Manganese	50	NA	NA	<u>2010</u>	<u>1780</u>	<u>2420</u>	<u>1870</u>
All results are in micrograms per liter (ug/L).							
See footnotes for additional information.							

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well	Sample Name	GWQS ¹	OB-07				
			OB-7 8/2/1984	OB-7 6/1/1986	OB-7 10/13/2004	OB-7 9/28/2006	OB-7 4/11/2007
VOC							
Benzene	1	< 10	< 10	< 0.5	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	NA	NA	NA	< 0.31	< 0.31	< 0.2
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2
PCBs							
PCB 1016	0.5	< 0.5	NA	< 0.075 J	< 0.1	< 0.1	< 0.1
PCB 1221	0.5	< 0.5	NA	< 0.085	< 0.51	< 0.5	< 0.52
PCB 1232	0.5	< 0.5	NA	< 0.12	< 0.42	< 0.41	< 0.43
PCB 1242	0.5	< 0.5	NA	< 0.13	< 0.18	< 0.17	< 0.18
PCB 1248	0.5	< 0.5	NA	< 0.072	< 0.17	< 0.16	< 0.17
PCB 1254	0.5	< 0.5	NA	< 0.072	< 0.12	< 0.12	< 0.12
PCB 1260	0.5	< 0.5	NA	< 0.1	< 0.13	< 0.12	< 0.13
Total PCBs	0	NA	0	0	0	0	0
Metals - Total							
Arsenic	3	< 5	< 2	< 5	< 1.5	< 1.5	< 1.1
Iron	300	<u>7000</u>	NA	<u>1360</u>	<u>2640</u>	<u>2340</u>	<u>1440</u>
Lead	5	< 50	< 50	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	<u>420</u>	NA	<u>3150</u>	<u>2710</u>	<u>1480</u>	<u>2880</u>
Metals - Dissolved							
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	< 1.1
Iron	300	NA	NA	270	<u>1680</u>	<u>535</u>	30.5 BJ
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	NA	NA	<u>3140</u>	<u>2700</u>	<u>1400</u>	<u>2350</u>

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well	GWQS ¹	OB-08		OB-09	
		OB-8 8/2/1984	OB-9 8/2/1984	OB-9 6/14/1986	OB-9 3/23/1988
VOC					
Benzene	1	< 10	< 10	< 10	< 5
Ethylbenzene	700	< 10	< 10	< 10	< 5
Toluene	1000	< 10	< 10	19	< 5
Xylene, -m	NS	NA	NA	NA	< 5
Xylene, -m,p	NS	NA	NA	NA	NA
Xylene, -o	NS	NA	NA	NA	< 5
Xylenes	1,000	NA	NA	NA	NA
PCBs					
PCB 1016	0.5	< 0.5	< 1	NA	NA
PCB 1221	0.5	< 0.5	< 1	NA	NA
PCB 1232	0.5	< 0.5	< 1	NA	NA
PCB 1242	0.5	< 0.5	< 1	NA	NA
PCB 1248	0.5	< 0.5	< 1	NA	NA
PCB 1254	0.5	< 0.5	< 1	NA	NA
PCB 1260	0.5	< 0.5	< 1	NA	NA
Total PCBs		0	0	NA	NA
Metals - Total					
Arsenic	3	< 5	7	10.6	< 2
Iron	300	13000	450	NA	NA
Lead	5	< 50	< 50	< 50	< 50
Manganese	50	1900	320	NA	NA
Metals - Dissolved					
Arsenic	3	NA	NA	NA	< 2
Iron	300	NA	NA	NA	NA
Lead	5	NA	NA	NA	< 50
Manganese	50	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

OB Wells - Ringwood Mines/Landfill Site

Well Sample Name Sample Date	GWQS ¹	OB-10		OB-10		OB-10		OB-10		OB-10	
		OB-10 8/2/1984	OB-10 10/31/1989	OB-10 1/30/1990	OB-10 4/24/1990	OB-10 7/23/1990	OB-10 10/14/2004	OB-10 10/2/2006	OB-10 4/2/2007	OB-10 10/12/2007	
VOC											
Benzene	1	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.21	< 0.21	< 0.19	
Ethylbenzene	700	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.2	< 0.2	< 0.21	
Toluene	1000	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.2	< 0.2	< 0.21	
Xylene, -m	NS	NA	< 2	< 2	< 2	< 2	NA	NA	NA	NA	
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	< 0.42	< 0.42	< 0.35	
Xylene, -o	NS	NA	< 2	< 2	< 2	< 2	NA	< 0.31	< 0.31	< 0.2	
Xylenes	1,000	NA	NA	NA	NA	NA	< 1	< 0.31	< 0.31	< 0.2	
PCBs											
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	< 0.075	< 0.1	< 0.1	< 0.094	
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	< 0.085	< 0.5	< 0.51	< 0.47	
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	< 0.12	< 0.41	< 0.42	< 0.39	
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	< 0.13	< 0.17	< 0.18	< 0.16	
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	< 0.072	< 0.16	< 0.17	< 0.15	
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	< 0.072	< 0.12	< 0.12	< 0.11	
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	< 0.1	< 0.12	< 0.13	< 0.12	
Total PCBs	0	NA	NA	NA	NA	NA	0	0	0	0	
Metals - Total											
Arsenic	3	<u>31</u>	< 2	<u>4.61</u>	< 5	< 5	< 5	< 1.5	< 1.5	< 1.1	
Iron	300	<u>9500</u>	<u>4560</u>	<u>7240</u>	<u>2200</u>	<u>14200</u>	< 100	<u>4010</u>	<u>1110</u>	<u>598</u>	
Lead	5	< 50	< 5	< 5	< 5	< 5	< 3	< 2.6	< 2.8	< 0.94	
Manganese	50	<u>5400</u>	<u>174</u>	<u>392</u>	<u>82</u>	<u>93</u>	< 15	<u>1600</u>	<u>882</u>	<u>214</u>	
Metals - Dissolved											
Arsenic	3	NA	NA	NA	NA	NA	< 5	< 1.5	< 1.5	< 1.1	
Iron	300	NA	NA	NA	NA	NA	< 100	<u>3700</u>	<u>788</u>	< 6.3	
Lead	5	NA	NA	NA	NA	NA	< 3	< 2.6	< 2.8	< 0.94	
Manganese	50	NA	NA	NA	NA	NA	< 15	<u>1570</u>	<u>866</u>	<u>161</u>	

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

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OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS ¹	OB-11										
			OB-11 8/1/1984	OB-11 9/20/1984	OB-11 6/14/1986	OB-11 3/22/1988	OB-11 10/31/1989	OB-11 1/30/1990	OB-11 4/24/1990	OB-11 7/23/1990	OB-11 1/16/1992	OB-11 7/29/1992	OB-11 2/17/1993
VOC													
Benzene	1	< 10	< 10	< 10	2 J	< 2	< 2	< 2	< 2	< 2	2	3	< 1
Ethylbenzene	700	< 10	< 10	< 10	0.2 J	2.7	< 2	< 2	< 2	< 2	< 5	4 J	< 5
Toluene	1000	< 10	< 10	< 10	< 5	< 2	< 2	< 2	< 2	< 2	< 5	2 J	< 5
Xylene, -m	NS	NA	NA	NA	< 5	< 2	< 2	< 2	< 2	< 2	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 J	9	< 5
Xylene, -o	NS	NA	NA	NA	4 J	< 2	< 2	< 2	< 2	< 2	2 J	7	< 5
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs													
PCB 1016	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs		NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals - Total													
Arsenic	3	NA	6	< 2	NA	< 2	< 2	< 5	< 5	2.6R	3.6 BR	3 B	
Iron	300	NA	20000	NA	NA	19900	1160	4090	22300	24300	38200	12900	
Lead	5	NA	60	< 50	NA	< 5	< 5	< 5	18.8	< 20.8	< 24.4	1.8 B	
Manganese	50	NA	2900	NA	NA	1680	1040	438	1440	1610	1150	1080	
Metals - Dissolved													
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well	Sample Name	GWQS ¹	OB-11				
			OB-11 7/26/1993	OB-11 2/20/1995	OB-11 8/7/1995	OB-11 8/16/1999	OB-11 4/13/2000
VOC							
Benzene	1	< 1	< 1	< 1	NA	NA	<u>1.2</u>
Ethylbenzene	700	< 5	< 10	< 10	NA	NA	< 0.5
Toluene	1000	< 5	< 10	< 10	NA	NA	< 0.5
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 5	< 10	< 10	NA	NA	NA
Xylene, -o	NS	< 5	< 10	< 10	NA	NA	NA
Xylenes	1,000	NA	NA	NA	NA	NA	< 1
PCBs							
PCB 1016	0.5	NA	NA	NA	NA	NA	< 0.084
PCB 1221	0.5	NA	NA	NA	NA	NA	< 0.094
PCB 1232	0.5	NA	NA	NA	NA	NA	< 0.14
PCB 1242	0.5	NA	NA	NA	NA	NA	< 0.15
PCB 1248	0.5	NA	NA	NA	NA	NA	< 0.08
PCB 1254	0.5	NA	NA	NA	NA	NA	< 0.08
PCB 1260	0.5	NA	NA	NA	NA	NA	< 0.11
Total PCBs		NA	NA	NA	NA	NA	0
Metals - Total							
Arsenic	3	<u>8.3 B</u>	< 2	<u>4.4 B</u>	NA	NA	< 5
Iron	300	<u>21900</u>	<u>11700</u>	<u>23400</u>	NA	NA	<u>33300</u>
Lead	5	<u>14</u>	< 2	<u>31.9</u>	< 1.7	1.6	< 3
Manganese	50	<u>2440</u>	<u>1060</u>	<u>1300</u>	NA	NA	<u>1200 J</u>
Metals - Dissolved							
Arsenic	3	NA	NA	NA	NA	NA	< 5
Iron	300	NA	NA	NA	NA	NA	<u>31900</u>
Lead	5	NA	NA	NA	NA	< 1.3	< 3
Manganese	50	NA	NA	NA	NA	NA	<u>1130 J</u>

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well	Sample Name	GWQS ¹	OB-12					
			OB-12 6/16/1986	OB-12 3/22/1988	OB-12 11/1/2004	OB-12 12/30/2004	OB-12 9/28/2006	OB-12 4/3/2007
VOC								
Benzene	1	NA	< 5	< 1	< 0.31	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	NA	< 5	< 1	< 0.27	< 0.2	< 0.2	< 0.21
Toluene	1000	NA	< 5	< 1	< 0.14	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	< 5	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	< 1	< 0.36	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	NA	< 5	< 1	< 0.17	< 0.31	< 0.31	< 0.2
Xylenes	1,000	NA	NA	< 1	< 0.17	< 0.31	< 0.31	< 0.2
PCBs								
PCB 1016	0.5	< 0.5	NA	< 0.5	< 0.075	< 0.1	< 0.11	< 0.1
PCB 1221	0.5	< 0.5	NA	< 0.5	< 0.085	< 0.52	< 0.53	< 0.52
PCB 1232	0.5	< 0.05	NA	< 0.5	< 0.12	< 0.43	< 0.44	< 0.43
PCB 1242	0.5	< 0.05	NA	< 0.5	< 0.13	< 0.18	< 0.18	< 0.18
PCB 1248	0.5	< 0.05	NA	< 0.5	< 0.072	< 0.17	< 0.17	< 0.17
PCB 1254	0.5	< 0.05	NA	< 0.5	< 0.072	< 0.12	< 0.12	< 0.12
PCB 1260	0.5	< 0.05	NA	< 0.5	< 0.1	< 0.13	< 0.13	< 0.13
Total PCBs		0	NA	0	0	0	0	0
Metals - Total								
Arsenic	3	< 2	< 2	< 5	< 5	< 1.5	< 1.5	< 1.1
Iron	300	NA	NA	< 100	< 100	104	< 25	19.5 BJ
Lead	5	< 50	< 50	< 3	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	NA	NA	< 15	< 15	2.4 BJ	1.3 B	1.6 BJ
Metals - Dissolved								
Arsenic	3	NA	NA	< 5	< 5	< 1.5	< 1.5	< 1.1
Iron	300	NA	NA	< 100	< 100	< 67	< 25	20.5 BJ
Lead	5	NA	NA	< 3	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	NA	NA	< 15	< 15	2.4 BJ	1.4 B	1.8 BJ

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

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OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS ¹	OB-13								
			OB-13 6/17/1986	OB-13 3/24/1988	OB-13 10/30/1989	OB-13 1/30/1990	OB-13 4/24/1990	OB-13 7/24/1990	OB-13 10/13/2004	OB-13 10/3/2006	OB-13 4/3/2007
VOC											
Benzene	1	NA	< 5	< 2	< 2	< 2 JS	< 2	< 0.5	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	NA	< 5	< 2	< 2	< 2 JS	< 2	< 0.5	< 0.2	< 0.2	< 0.21
Toluene	1000	NA	< 5	< 2	< 2	< 2 JS	< 2	< 0.5	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	< 5	< 2	< 2	< 2 JS	< 2	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	NA	< 5	< 2	< 2	< 2 JS	< 2	NA	< 0.31	< 0.31	< 0.2
Xylenes	1,000	NA	NA	NA	NA	NA	NA	< 1	< 0.31	< 0.31	< 0.2
PCBs											
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.075	< 0.1	< 0.11	< 0.099
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.085	< 0.51	< 0.53	< 0.49
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.12	< 0.42	< 0.44	< 0.41
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.13	< 0.18	< 0.18	< 0.17
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.072	< 0.16	< 0.17	< 0.16
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.072	< 0.12	< 0.12	< 0.11
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.1	< 0.13	< 0.13	< 0.12
Total PCBs	0	NA	NA	NA	NA	NA	NA	0	0	0	0
Metals - Total											
Arsenic	3	< 2	NA	< 2	< 2	< 5	< 5	< 5	< 1.5	< 1.5	< 1.1
Iron	300	NA	NA	206 JMt	<u>1050</u>	<u>407</u>	<u>2200</u>	< 100	67.2 B	< 25	10.3 BJ
Lead	5	< 50	NA	< 5	< 5	< 5	31.4	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	NA	NA	< 10	12	< 10	31	< 15 J	1.1 B	< 0.6	1.4 BJ
Metals - Dissolved											
Arsenic	3	NA	NA	NA	NA	NA	NA	< 5	< 1.5	< 1.5	< 1.1
Iron	300	NA	NA	NA	NA	NA	NA	< 100	< 67	< 25	< 6.3 J
Lead	5	NA	NA	NA	NA	NA	NA	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	NA	NA	NA	NA	NA	NA	< 15 J	0.63 B	< 0.6	1.3 BJ

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

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OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS ¹	OB-14A							
			OB-14A 6/16/1986	OB-14A 3/22/1988	OB-14A 10/31/1989	OB-14A 1/30/1990	OB-14A 4/24/1990	OB-14A 7/24/1990	OB-14A 1/15/1992	OB-14A 7/29/1992
VOC										
Benzene	1	NA	< 5	< 2	< 2	< 2	< 2	< 1	< 0.5	< 1
Ethylbenzene	700	NA	< 5	< 2	< 2	< 2	< 2	< 5	< 5	< 5
Toluene	1000	NA	< 5	< 2	< 2	< 2	< 2	< 5	< 5	< 5
Xylene, -m	NS	NA	< 5	< 2	< 2	< 2	< 2	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	< 5	< 5	< 5
Xylene, -o	NS	NA	< 5	< 2	< 2	< 2	< 2	< 5	< 5	< 5
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs										
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals - Total										
Arsenic	3	<u>15</u>	<u>56.6</u>	<u>23.3</u>	<u>26.5</u>	<u>28.3</u>	<u>20.5</u>	<u>28.3</u>	<u>41.3 J</u>	<u>14.4</u>
Iron	300	NA	NA	<u>74400</u>	<u>86500</u>	<u>44300</u>	<u>51700</u>	<u>67200</u>	<u>376000</u>	<u>86400</u>
Lead	5	< 50	<u>85</u>	17.9	<u>17.9</u>	< 5	15.5	< 20.8	<u>107</u>	1.7 B
Manganese	50	NA	NA	<u>1360</u>	<u>3780</u>	<u>4860</u>	<u>2880</u>	<u>4140</u>	<u>6440</u>	<u>2670</u>
Metals - Dissolved										
Arsenic	3	NA	<u>29.4</u>	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	< 50	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

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OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS ¹	OB-14A								
			OB-14A 7/27/1993	OB-14A 2/21/1995	OB-14A 8/7/1995	OB-14A 8/16/1999	OB-14A 4/13/2000	OB-14A 10/12/2004	OB-14A 9/27/2006	OB-14A 4/9/2007	OB-14A (DUP) 10/11/2007
VOC											
Benzene	1	< 1	< 1	< 1	< 10	NA	< 0.5	< 0.21	< 0.21	< 0.19	< 0.19
Ethylbenzene	700	< 5	< 10	< 10	< 10	NA	< 0.5	< 0.2	< 0.2	< 0.21	< 0.21
Toluene	1000	< 5	< 10	< 10	< 10	NA	< 0.5	< 0.2	< 0.2	< 0.21	< 0.21
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 5	< 10	< 10	NA	NA	NA	< 0.42	< 0.42	< 0.35	< 0.35
Xylene, -o	NS	< 5	< 10	< 10	NA	NA	NA	< 0.31	< 0.31	< 0.2	< 0.2
Xylenes	1,000	NA	NA	NA	< 10	NA	< 1	< 0.31	< 0.31	< 0.2	< 0.2
PCBs											
PCB 1016	0.5	NA	NA	NA	NA	NA	< 0.075 J	< 0.1	< 0.1	< 0.099	< 0.094
PCB 1221	0.5	NA	NA	NA	NA	NA	< 0.085	< 0.51	< 0.51	< 0.49	< 0.47
PCB 1232	0.5	NA	NA	NA	NA	NA	< 0.12	< 0.42	< 0.42	< 0.41	< 0.39
PCB 1242	0.5	NA	NA	NA	NA	NA	< 0.13	< 0.18	< 0.18	< 0.17	< 0.16
PCB 1248	0.5	NA	NA	NA	NA	NA	< 0.072	< 0.17	< 0.17	< 0.16	< 0.15
PCB 1254	0.5	NA	NA	NA	NA	NA	< 0.072	< 0.12	< 0.12	< 0.11	< 0.11
PCB 1260	0.5	NA	NA	NA	NA	NA	< 0.1	< 0.13	< 0.13	< 0.12	< 0.12
Total PCBs		NA	NA	NA	NA	NA	0	0	0	0	0
Metals -Total											
Arsenic	3	<u>41.2</u>	<u>32.7</u>	<u>4.9 B</u>	<u>20.5</u>	<u>11.9</u>	<u>16.7</u>	<u>4.5 J</u>	2.4	<u>23.1</u>	<u>21.6</u>
Iron	300	<u>290000</u>	<u>64500</u>	<u>103000</u>	NA	NA	<u>55600</u>	<u>42300</u>	<u>45500</u>	<u>61400</u>	<u>59600</u>
Lead	5	<u>117</u>	3.8	<u>47</u>	< 1.7	3.3	< 3	< 2.6	3.3	1.4 B	1 B
Manganese	50	<u>7350</u>	<u>4150</u>	<u>3320</u>	NA	NA	<u>2320</u>	<u>1050 J</u>	<u>1040 J</u>	<u>2770</u>	<u>2640</u>
Metals -Dissolved											
Arsenic	3	NA	NA	NA	NA	<u>9.7 B</u>	<u>19.6</u>	<u>5.5 J</u>	< 1.5	<u>5.6</u>	<u>5</u>
Iron	300	NA	NA	NA	NA	NA	<u>59400</u>	<u>46100</u>	<u>46200</u>	<u>39900</u>	<u>32400</u>
Lead	5	NA	NA	NA	NA	< 1.3	< 3	< 2.6	2.9 B	< 0.94	1.2 B
Manganese	50	NA	NA	NA	NA	NA	<u>2550</u>	<u>1230 J</u>	<u>1070 J</u>	<u>2710</u>	<u>2860</u>

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site****Well****Sample Name** **GWQS¹****Sample Date****VOC**

Benzene	1
Ethylbenzene	700
Toluene	1000
Xylene, -m	NS
Xylene, -m,p	NS
Xylene, -o	NS
Xylenes	1,000

PCBs

PCB 1016	0.5
PCB 1221	0.5
PCB 1232	0.5
PCB 1242	0.5
PCB 1248	0.5
PCB 1254	0.5
PCB 1260	0.5
Total PCBs	

Metals -Total

Arsenic	3
Iron	300
Lead	5
Manganese	50

Metals -Dissolved

Arsenic	3
Iron	300
Lead	5
Manganese	50

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

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OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS ¹	OB-14B									
			OB-14B 6/16/1986	OB-14B 3/22/1988	OB-14B 10/31/1989	OB-14B 1/30/1990	OB-14B 4/24/1990	OB-14B 7/24/1990	OB-14B 1/15/1992	OB-14B 7/28/1992	OB-14B 2/17/1993	OB-14B 7/27/1993
VOC												
Benzene	1	NA	< 5	< 2	< 2	< 2	< 2	< 2	< 1	< 0.5	< 1	< 1
Ethylbenzene	700	NA	< 5	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Toluene	1000	NA	< 5	< 2	< 2	< 2	< 2	< 2	4 J	< 5	< 5	< 5
Xylene, -m	NS	NA	< 5	< 2	< 2	< 2	< 2	< 2	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA	< 5	< 5	< 5	< 5
Xylene, -o	NS	NA	< 5	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs												
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals -Total												
Arsenic	3	<u>3.6</u>	< 2	<u>5.14</u>	< 2	<u>19.2</u>	< 5	<u>7.9</u>	< 3 R	1.6 B	<u>3.2 B</u>	
Iron	300	NA	NA	<u>14200</u>	<u>14700</u>	<u>37600</u>	<u>8710</u>	<u>15900</u>	<u>1780 E</u>	<u>1300</u>	<u>2040</u>	
Lead	5	< 50	< 50	< 5	< 5	19.8	14	<u>26.4</u>	< 24.4	< 0.8	1.5 B	
Manganese	50	NA	NA	<u>2120</u>	<u>1760</u>	<u>2000</u>	<u>1400</u>	<u>1840</u>	<u>1390</u>	<u>1380</u>	<u>1360</u>	
Metals -Dissolved												
Arsenic	3	NA	< 2	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	5	NA	< 50	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well	Sample Name	GWQS ¹	OB-14B				
			OB-14B 2/21/1995	OB-14B 8/7/1995	OB-14B 10/12/2004	OB-14B 9/27/2006	OB-14B 4/9/2007
VOC							
Benzene	1	< 1	< 1	< 0.5	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 10	< 10	NA	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	< 10	< 10	NA	< 0.31	< 0.31	< 0.2
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2
PCBs							
PCB 1016	0.5	NA	NA	< 0.075 J	< 0.1	< 0.12	< 0.11
PCB 1221	0.5	NA	NA	< 0.085	< 0.51	< 0.59	< 0.53
PCB 1232	0.5	NA	NA	< 0.12	< 0.42	< 0.49	< 0.44
PCB 1242	0.5	NA	NA	< 0.13	< 0.18	< 0.21	< 0.18
PCB 1248	0.5	NA	NA	< 0.072	< 0.17	< 0.19	< 0.17
PCB 1254	0.5	NA	NA	< 0.072	< 0.12	< 0.14	< 0.12
PCB 1260	0.5	NA	NA	< 0.1	< 0.13	< 0.15	< 0.13
Total PCBs		NA	NA	0	0	0	0
Metals - Total							
Arsenic	3	3 B	1.1 B	< 5	< 1.5	< 1.5	2.8 B
Iron	300	<u>1350</u>	<u>799</u>	<u>1740 J</u>	<u>959</u>	<u>962</u>	<u>642</u>
Lead	5	< 2	<u>7.2</u>	3.6	< 2.6	< 2.8	1.1 B
Manganese	50	<u>1270</u>	<u>834</u>	<u>1860</u>	<u>1900</u>	<u>2040 J</u>	<u>1500</u>
Metals - Dissolved							
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	1.6 B
Iron	300	NA	NA	<u>407</u>	<u>949</u>	<u>894</u>	26.5 J
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	NA	NA	<u>1890</u>	<u>1910</u>	<u>2020 J</u>	<u>1430</u>

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well	Sample Name	OB-15A			
		GWQS ¹	OB-15A 6/1/1986	OB-15A 6/16/1986	OB-15A-2 6/16/1986
VOC					
Benzene	1	< 10	NA	NA	NA
Ethylbenzene	700	< 10	NA	NA	NA
Toluene	1000	22	NA	NA	NA
Xylene, -m	NS	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	700
Xylene, -o	NS	NA	NA	NA	220
Xylenes	1,000	NA	NA	NA	NA
PCBs					
PCB 1016	0.5	NA	< 0.05	< 0.5	NA
PCB 1221	0.5	NA	< 0.05	< 0.5	NA
PCB 1232	0.5	NA	< 0.05	< 0.5	NA
PCB 1242	0.5	NA	< 0.05	< 0.5	NA
PCB 1248	0.5	NA	< 0.05	< 0.5	NA
PCB 1254	0.5	NA	< 0.05	< 0.5	NA
PCB 1260	0.5	NA	< 0.05	< 0.5	NA
Total PCBs		NA	0	0	NA
Metals - Total					
Arsenic	3	NA	<u>8</u>	<u>7.6</u>	NA
Iron	300	NA	NA	NA	NA
Lead	5	NA	<u>764</u>	<u>419</u>	NA
Manganese	50	NA	NA	NA	NA
Metals - Dissolved					
Arsenic	3	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

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OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS ¹	OB-15B							
			OB-15B 6/16/1986	OB-15B 3/22/1988	OB-15B 10/30/1989	OB-15B 1/30/1990	OB-15B 4/23/1990	OB-15B 7/23/1990	OB-15B 1/14/1992	OB-15B 7/30/1992
VOC										
Benzene	1	< 10	< 5	< 2	< 2	< 2	< 2	< 1	< 0.5	< 1
Ethylbenzene	700	< 10	< 5	< 2	< 2	< 2	< 2	< 5	< 5	< 5
Toluene	1000	< 10	< 5	< 2	< 2	< 2	< 2	< 5	< 5	< 5
Xylene, -m	NS	NA	< 5	< 2	< 2	< 2	< 2	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	< 5	< 5	< 5
Xylene, -o	NS	NA	< 5	< 2	< 2	< 2	< 2	< 5	< 5	< 5
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs										
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals - Total										
Arsenic	3	2.2	NA	< 2	< 2	< 5	< 5	<u>5.2</u>	<u>26.2</u>	2.9 B
Iron	300	NA	NA	<u>2100 JMt</u>	<u>8910</u>	<u>21700</u>	<u>12600</u>	<u>26400</u>	<u>28000</u>	<u>7850</u>
Lead	5	< 50	NA	47.3	< 5	6.13	14.3	< 20.8	< 24.4	0.97 B
Manganese	50	NA	NA	<u>898</u>	<u>410</u>	<u>1050</u>	<u>592</u>	<u>2750</u>	<u>4910</u>	<u>2410</u>
Metals - Dissolved										
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

OB Wells - Ringwood Mines/Landfill Site

Well Sample Name Sample Date	GWQS ¹	OB-15B						
		OB-15B 7/27/1993	OB-15B 2/21/1995	OB-15B 8/7/1995	OB-15B 10/12/2004	OB-15B 10/3/2006	OB-15B 4/12/2007	OB-15B 10/16/2007
VOC								
Benzene	1	< 1	< 1	< 1	< 0.5	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	< 5	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21
Toluene	1000	< 5	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 5	< 10	< 10	NA	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	< 5	< 10	< 10	NA	< 0.31	< 0.31	< 0.2
Xylenes	1,000	NA	NA	NA	< 1	< 0.31	< 0.31	< 0.2
PCBs								
PCB 1016	0.5	NA	NA	NA	< 0.075 J	< 0.094	< 0.1	< 0.1
PCB 1221	0.5	NA	NA	NA	< 0.085	< 0.47	< 0.52	< 0.52
PCB 1232	0.5	NA	NA	NA	< 0.12	< 0.39	< 0.43	< 0.43
PCB 1242	0.5	NA	NA	NA	< 0.13	< 0.16	< 0.18	< 0.18
PCB 1248	0.5	NA	NA	NA	< 0.072	< 0.15	< 0.17	< 0.17
PCB 1254	0.5	NA	NA	NA	< 0.072	< 0.11	< 0.12	< 0.12
PCB 1260	0.5	NA	NA	NA	< 0.1	< 0.12	< 0.13	< 0.13
Total PCBs		NA	NA	NA	0	0	0	0
Metals - Total								
Arsenic	3	<u>4.6 B</u>	< 2	< 1	< 5	< 1.5	< 1.5	< 1.1
Iron	300	<u>10300</u>	<u>2040</u>	<u>1080</u>	<u>2720</u>	<u>1640</u>	194	158 J
Lead	5	<u>7.5</u>	< 2	1 B	< 3	< 2.6	< 2.8	1 B
Manganese	50	<u>6140</u>	<u>3230</u>	<u>8580</u>	<u>488</u>	<u>1540</u>	<u>440</u>	<u>675</u>
Metals - Dissolved								
Arsenic	3	NA	NA	NA	< 5	< 1.5	< 1.5	< 1.1
Iron	300	NA	NA	NA	< 100	< 67	< 25	12.8 BJ
Lead	5	NA	NA	NA	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	NA	NA	NA	<u>408</u>	<u>235</u>	<u>81.1</u>	<u>162</u>

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

OB Wells - Ringwood Mines/Landfill Site

Well Sample Name Sample Date	GWQS ¹	OB-16					
		OB-16 1/15/1992	OB-16 7/29/1992	OB-16 2/16/1993	OB-16 7/26/1993	OB-16 2/20/1995	OB-16 8/6/1995
VOC							
Benzene	1	< 1	< 0.5	< 1	< 1	NA	< 1
Ethylbenzene	700	< 5	< 5	< 5	< 5	NA	< 10
Toluene	1000	< 5	< 5	< 5	< 5	NA	< 10
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 5	< 5	< 5	< 5	NA	< 10
Xylene, -o	NS	< 5	< 5	< 5	< 5	NA	< 10
Xylenes	1,000	NA	NA	NA	NA	NA	NA
PCBs							
PCB 1016	0.5	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA	NA
Metals - Total							
Arsenic	3	<u>5.8R</u>	<u>3.5 BR</u>	<u>6.4 B</u>	<u>3.2 B</u>	<u>11</u>	<u>11.1</u>
Iron	300	<u>13400</u>	<u>14300</u>	<u>10600</u>	<u>8610</u>	<u>12800</u>	<u>16700</u>
Lead	5	< 20.8	< 24.4	0.94 B	1.8 B	< 2	< 0.48
Manganese	50	<u>3260</u>	<u>3610</u>	<u>3380</u>	<u>3500</u>	<u>2790</u>	<u>3960</u>
Metals - Dissolved							
Arsenic	3	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well	Sample Name	GWQS ¹	OB-16				
			OB-16 4/13/2000	OB-16 10/12/2004	OB-16 9/27/2006	OB-16 4/10/2007	OB-16 10/10/2007
VOC							
Benzene	1	NA	< 0.5	< 0.21	< 0.21	< 0.19	
Ethylbenzene	700	NA	< 0.5	< 0.2	< 0.2	< 0.21	
Toluene	1000	NA	< 0.5	< 0.2	< 0.2	< 0.21	
Xylene, -m	NS	NA	NA	NA	NA	NA	
Xylene, -m,p	NS	NA	NA	< 0.42	< 0.42	< 0.35	
Xylene, -o	NS	NA	NA	< 0.31	< 0.31	< 0.2	
Xylenes	1,000	NA	< 1	< 0.31	< 0.31	< 0.2	
PCBs							
PCB 1016	0.5	NA	< 0.075 J	< 0.1	< 0.1 R	< 0.099	
PCB 1221	0.5	NA	< 0.085	< 0.5	< 0.5 R	< 0.49	
PCB 1232	0.5	NA	< 0.12	< 0.41	< 0.41 R	< 0.41	
PCB 1242	0.5	NA	< 0.13	< 0.17	< 0.17 R	< 0.17	
PCB 1248	0.5	NA	< 0.072	< 0.16	< 0.16 R	< 0.16	
PCB 1254	0.5	NA	< 0.072	< 0.12	< 0.12 R	< 0.11	
PCB 1260	0.5	NA	< 0.1	< 0.12	< 0.12 R	< 0.12	
Total PCBs		NA	0	0	0	0	
Metals - Total							
Arsenic	3	<u>7.3 B</u>	<u>7.6</u>	<u>6.2</u>	<u>4.4</u>	<u>8.8</u>	
Iron	300	NA	<u>11000 J</u>	<u>9890</u>	<u>8050</u>	<u>15400</u>	
Lead	5	NA	< 3	< 2.6	< 2.8	< 0.94	
Manganese	50	NA	<u>3060</u>	<u>2840</u>	<u>2230</u>	<u>3940</u>	
Metals - Dissolved							
Arsenic	3	< 3.1	<u>6.3</u>	<u>4.2</u>	<u>3.3</u>	<u>3.6</u>	
Iron	300	NA	<u>10200</u>	<u>9620</u>	<u>9140</u>	<u>5400</u>	
Lead	5	NA	< 3	< 2.6	< 2.8	< 0.94	
Manganese	50	NA	<u>3080</u>	<u>2770</u>	<u>2470</u>	<u>3830</u>	

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

OB Wells - Ringwood Mines/Landfill Site

Well Sample Name Sample Date	GWQS ¹	OB-17									
		OB-17 1/16/1992	OB-17 7/29/1992	OB-17 2/16/1993	OB-17 7/26/1993	OB-17 2/20/1995	OB-17 2/21/1995	OB-17 8/6/1995	OB-17 8/16/1999	OB-17 4/13/2000	
VOC											
Benzene	1	< 1	< 0.5	< 1	< 1	NA	< 1	< 1	NA	NA	
Ethylbenzene	700	< 5	2 J	< 5	< 5	NA	< 10	< 10	NA	NA	
Toluene	1000	< 5	160	< 5	< 5	NA	< 10	< 10	NA	NA	
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Xylene, -m,p	NS	< 5	< 5	< 5	< 5	NA	< 10	< 10	NA	NA	
Xylene, -o	NS	< 5	< 5	< 5	< 5	NA	< 10	< 10	NA	NA	
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCBs											
PCB 1016	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB 1221	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB 1232	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB 1242	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB 1248	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB 1254	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB 1260	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs		NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals - Total											
Arsenic	3	<u>11.7</u>	<u>28.9 J</u>	<u>25.2</u>	<u>8.9 B</u>	<u>20.9</u>	NA	<u>19.3</u>	<u>8.6 B</u>	<u>4.5 B</u>	
Iron	300	<u>23600</u>	<u>54900</u>	<u>74100</u>	<u>32900</u>	<u>18900</u>	NA	<u>14300</u>	NA	NA	
Lead	5	< 20.8	< 24.4	<u>7.3</u>	<u>7.1</u>	< 2	NA	0.61 B	NA	NA	
Manganese	50	<u>15000</u>	<u>20200</u>	<u>10100</u>	<u>7430</u>	<u>4560</u>	NA	<u>3290</u>	NA	NA	
Metals - Dissolved											
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA	< 3.1	
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well	Sample Name	OB-17			
		GWQS ¹	OB-17 10/11/2004	OB-17 9/27/2006	OB-17 4/10/2007
Sample Date					
VOC					
Benzene	1	< 0.5	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	< 0.5	< 0.2	< 0.2	< 0.21
Toluene	1000	< 0.5	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	NA	NA	NA
Xylene, -m,p	NS	NA	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	NA	< 0.31	< 0.31	< 0.2
Xylenes	1,000	< 1	< 0.31	< 0.31	< 0.2
PCBs					
PCB 1016	0.5	< 0.075 J	< 0.1	< 0.1	< 0.094
PCB 1221	0.5	< 0.085	< 0.52	< 0.5	< 0.47
PCB 1232	0.5	< 0.12	< 0.43	< 0.41	< 0.39
PCB 1242	0.5	< 0.13	< 0.18	< 0.17	< 0.16
PCB 1248	0.5	< 0.072	< 0.17	< 0.16	< 0.15
PCB 1254	0.5	< 0.072	< 0.12	< 0.12	< 0.11
PCB 1260	0.5	< 0.1	< 0.13	< 0.12	< 0.12
Total PCBs		0	0	0	0
Metals -Total					
Arsenic	3	< 5	< 1.5	< 1.5	2.5 B
Iron	300	<u>2470</u>	<u>1770</u>	<u>1410</u>	<u>3830</u>
Lead	5	< 3	< 2.6	3.5	1.7 B
Manganese	50	<u>825</u>	<u>619</u>	<u>496</u>	<u>669</u>
Metals -Dissolved					
Arsenic	3	< 5	< 1.5	< 1.5	< 1.1
Iron	300	<u>2150</u>	<u>1580</u>	<u>1080</u>	<u>419</u>
Lead	5	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	<u>804</u>	<u>586</u>	<u>482</u>	<u>610</u>

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

OB Wells - Ringwood Mines/Landfill Site

Well Sample Name Sample Date	GWQS ¹	OB-18							
		OB-18 1/16/1992	OB-18 7/29/1992	OB-18 2/16/1993	OB-18 7/26/1993	OB-18 2/21/1995	OB-18 8/6/1995	OB-18 10/11/2004	OB-18 9/26/2006
VOC									
Benzene	1	< 1	< 0.5	< 1	< 1	< 1	< 1	< 0.5	< 0.21
Ethylbenzene	700	< 5	< 5	< 5	< 5	< 10	< 10	< 0.5	< 0.2
Toluene	1000	< 5	< 5	< 5	< 5	3 J	< 10	< 0.5	< 0.2
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 5	< 5	< 5	< 5	3 J	< 10	NA	< 0.42
Xylene, -o	NS	< 5	< 5	< 5	< 5	< 10	< 10	NA	< 0.31
Xylenes	1,000	NA	NA	NA	NA	NA	NA	< 1	< 0.31
PCBs									
PCB 1016	0.5	NA	NA	NA	NA	NA	NA	< 0.075 J	< 0.099
PCB 1221	0.5	NA	NA	NA	NA	NA	NA	< 0.085	< 0.49
PCB 1232	0.5	NA	NA	NA	NA	NA	NA	< 0.12	< 0.41
PCB 1242	0.5	NA	NA	NA	NA	NA	NA	< 0.13	< 0.17
PCB 1248	0.5	NA	NA	NA	NA	NA	NA	< 0.072	< 0.16
PCB 1254	0.5	NA	NA	NA	NA	NA	NA	< 0.072	< 0.11
PCB 1260	0.5	NA	NA	NA	NA	NA	NA	< 0.1	< 0.12
Total PCBs		NA	NA	NA	NA	NA	NA	0	0
Metals - Total									
Arsenic	3	<u>10.8</u>	<u>14.5</u>	1.7 B	<u>65</u>	< 2	< 1	< 5	< 1.5
Iron	300	<u>69900</u>	<u>20600</u>	<u>17800</u>	<u>263000</u>	<u>2650</u>	<u>3100</u>	< 100	78.5 B
Lead	5	<u>43.2</u>	< 24.4	2 B	<u>101</u>	< 2	1.6 B	< 3	< 2.6
Manganese	50	<u>2240</u>	<u>450</u>	<u>336</u>	<u>6200</u>	<u>80.1</u>	<u>68.5</u>	< 15	< 0.4
Metals - Dissolved									
Arsenic	3	NA	NA	NA	NA	NA	NA	< 5	< 1.5
Iron	300	NA	NA	NA	NA	NA	NA	< 100	< 67
Lead	5	NA	NA	NA	NA	NA	NA	< 3	< 2.6
Manganese	50	NA	NA	NA	NA	NA	NA	< 15	< 0.4

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey**OB Wells - Ringwood Mines/Landfill Site**

Well Sample Name Sample Date	GWQS ¹	OB-18			OB-19			
		OB-18 4/10/2007	OB-18 (DUP) 4/10/2007	OB-18 10/10/2007	MW-19 10/3/2006	OB-19 4/9/2007	OB-19 10/15/2007	OB-19 (DUP) 10/15/2007
VOC								
Benzene	1	< 0.21	< 0.21	< 0.19	0.55 J	0.59 J	< 0.19	< 0.19
Ethylbenzene	700	< 0.2	< 0.2	< 0.21	< 0.2	< 0.2	< 0.21	< 0.21
Toluene	1000	< 0.2	< 0.2	< 0.21	< 0.2	< 0.2	< 0.21	< 0.21
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.42	< 0.35	< 0.42	< 0.42	< 0.35	< 0.35
Xylene, -o	NS	< 0.31	< 0.31	< 0.2	< 0.31	< 0.31	< 0.2	< 0.2
Xylenes	1,000	< 0.31	< 0.31	< 0.2	< 0.31	< 0.31	< 0.2	< 0.2
PCBs								
PCB 1016	0.5	< 0.1	< 0.094	< 0.094	< 0.1	< 0.1	< 0.1	< 0.1
PCB 1221	0.5	< 0.52	< 0.47	< 0.47	< 0.51	< 0.51	< 0.52	< 0.52
PCB 1232	0.5	< 0.43	< 0.39	< 0.39	< 0.42	< 0.42	< 0.43	< 0.43
PCB 1242	0.5	< 0.18	< 0.16	< 0.16	< 0.18	< 0.18	< 0.18	< 0.18
PCB 1248	0.5	< 0.17	< 0.15	< 0.15	< 0.16	< 0.16	< 0.17	< 0.17
PCB 1254	0.5	< 0.12	< 0.11	< 0.11	< 0.12	< 0.12	< 0.12	< 0.12
PCB 1260	0.5	< 0.13	< 0.12	< 0.12	< 0.13	< 0.13	< 0.13	< 0.13
Total PCBs	0	0	0	0	0	0	0	0
Metals - Total								
Arsenic	3	< 1.5	< 1.5	< 1.1	<u>3.1</u>	< 1.5	1.9 B	1.8 B
Iron	300	< 25	< 25	251	<u>43600</u>	<u>18600</u>	<u>20000</u>	<u>20200</u>
Lead	5	< 2.8	< 2.8	1.2 B	<u>9.4</u>	< 2.8	1.3 B	1 B
Manganese	50	1.5 BJ	0.77 BJ	9.4 B	<u>713</u>	<u>276 J</u>	<u>987 J</u>	<u>1150</u>
Metals - Dissolved								
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.5	< 1.5	< 1.1	< 1.1
Iron	300	< 25	< 25	< 6.3	<u>28700</u>	<u>18800</u>	<u>3940</u>	<u>4170</u>
Lead	5	< 2.8	< 2.8	1 B	< 2.6	< 2.8	1.1 B	< 0.94
Manganese	50	< 0.6	< 0.6	< 0.17	<u>532</u>	<u>282 J</u>	<u>1100 J</u>	<u>1070</u>

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

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OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	OB-20A			OB-20B			OB-21				
		GWQS ¹	MW-20 10/4/2006	OB-20A 4/3/2007	OB-20A 10/11/2007	MW-20 10/4/2006	OB-34 4/5/2007	OB-20B 4/5/2007	OB-20B (DUP) 4/5/2007	OB-20B 10/11/2007	MW-21 10/5/2006	OB-21 4/9/2007
VOC												
Benzene	1	0.36 J	0.48 J	0.36 J	<u>2</u>	<u>1.4</u>	<u>1.5</u>	<u>1.5</u>	< 0.21	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	< 0.2	< 0.2	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2	< 0.21	< 0.2	< 0.2	< 0.21
Toluene	1000	0.56 J	< 0.2	< 0.21	0.62 J	< 0.2	< 0.2	< 0.2	< 0.21	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.42	< 0.35	< 0.42	< 0.42	< 0.42	< 0.42	< 0.35	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	< 0.31	< 0.31	< 0.2	< 0.31	< 0.31	< 0.31	< 0.31	< 0.2	< 0.31	< 0.31	< 0.2
Xylenes	1,000	< 0.31	< 0.31	< 0.2	< 0.31	< 0.31	< 0.31	< 0.31	< 0.2	< 0.31	< 0.31	< 0.2
PCBs												
PCB 1016	0.5	< 0.1	< 0.1	< 0.094	< 0.1	< 0.099	< 0.1	< 0.094	< 0.11	< 0.1	< 0.1	< 0.1
PCB 1221	0.5	< 0.5	< 0.52	< 0.47	< 0.5	< 0.49	< 0.51	< 0.47	< 0.53	< 0.51	< 0.52	< 0.52
PCB 1232	0.5	< 0.41	< 0.43	< 0.39	< 0.41	< 0.41	< 0.42	< 0.39	< 0.44	< 0.42	< 0.43	< 0.43
PCB 1242	0.5	< 0.17	< 0.18	< 0.16	< 0.17	< 0.17	< 0.18	< 0.16	< 0.19	< 0.18	< 0.18	< 0.18
PCB 1248	0.5	< 0.16	< 0.17	< 0.15	< 0.16	< 0.16	< 0.17	< 0.15	< 0.17	< 0.17	< 0.17	< 0.17
PCB 1254	0.5	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.12
PCB 1260	0.5	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12	< 0.13	< 0.13	< 0.13	< 0.13
Total PCBs	0	0	0	0	0	0	0	0	0	0	0	0
Metals -Total												
Arsenic	3	<u>13.9</u>	<u>24.6</u>	<u>18.6</u>	1.5 B	1.5 B	< 1.5	1.2 B	< 1.5	<u>10.4</u>	<u>9 B</u>	
Iron	300	<u>42400</u>	<u>60100</u>	<u>49600</u>	<u>35000</u>	<u>31500</u>	<u>31200</u>	<u>34900</u>	<u>2090</u>	<u>68100</u>	<u>54600</u>	
Lead	5	< 2.6	< 2.8	3	3.1	< 2.8	< 2.8	1.1 B	< 2.6	<u>29.2</u>	<u>27</u>	
Manganese	50	<u>3470</u>	<u>7740</u>	<u>5590</u>	<u>9430</u>	<u>8680</u>	<u>8520</u>	<u>9120</u>	<u>93.8</u>	<u>2840 J</u>	<u>2540</u>	
Metals -Dissolved												
Arsenic	3	<u>13.1</u>	<u>20.8</u>	2.4 B	< 1.5	< 1.5	< 1.5	< 1.1	< 1.5	< 1.5	< 1.1	< 1.1
Iron	300	<u>39800</u>	<u>58100</u>	<u>18600</u>	<u>32400</u>	<u>30100</u>	<u>30400</u>	<u>11400</u>	< 67	< 25	164 J	
Lead	5	< 2.6	< 2.8	< 0.94	< 2.6	2.9 B	3.6	1 B	< 2.6	< 2.8	< 0.94	
Manganese	50	<u>3350</u>	<u>7520</u>	<u>5310</u>	<u>9150</u>	<u>8300</u>	<u>8450</u>	<u>8970</u>	3.2 B	2.3 BJ	24.3	

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results Ringwood Mines/Landfill Site, Ringwood, New Jersey

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OB Wells - Ringwood Mines/Landfill Site

Well Sample Name	GWQS ¹	OB-22		OB-23		OB-24			OB-25		
		OB-22 11/30/2006	OB-22 4/4/2007	OB-23 11/28/2006	OB-23 4/11/2007	OB-24 11/28/2006	OB-24 4/11/2007	OB-24 10/12/2007	OB-25 11/30/2006	OB-25 4/12/2007	OB-25 10/12/2007
VOC											
Benzene	1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.19	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	< 0.2	< 0.2	8.4	0.38 J	< 0.2	< 0.2	< 0.21	< 0.2	< 0.2	< 0.21
Toluene	1000	< 0.2	< 0.2	2.3	< 0.2	< 0.2	< 0.2	< 0.21	< 0.2	< 0.2	< 0.21
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.42	23.2	1	< 0.42	< 0.42	< 0.35	< 0.42	< 0.42	< 0.35
Xylene, -o	NS	< 0.31	< 0.31	35.6	3.2	< 0.31	< 0.31	< 0.2	< 0.31	< 0.31	< 0.2
Xylenes	1,000	< 0.31	< 0.31	58.8	4.3	< 0.31	< 0.31	< 0.2	< 0.31	< 0.31	< 0.2
PCBs											
PCB 1016	0.5	< 0.1	< 0.1	< 0.11	< 0.094	< 0.11	< 0.12	< 0.094	< 0.11	< 0.1	< 0.11
PCB 1221	0.5	< 0.52	< 0.51	< 0.53	< 0.47	< 0.53	< 0.59	< 0.47	< 0.54	< 0.52	< 0.53
PCB 1232	0.5	< 0.43	< 0.42	< 0.44	< 0.39	< 0.44	< 0.49	< 0.39	< 0.45	< 0.43	< 0.44
PCB 1242	0.5	< 0.18	< 0.18	< 0.18	< 0.16	< 0.18	< 0.21	< 0.16	< 0.19	< 0.18	< 0.18
PCB 1248	0.5	< 0.17	< 0.17	< 0.17	< 0.15	< 0.17	< 0.19	< 0.15	< 0.18	< 0.17	< 0.17
PCB 1254	0.5	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.14	< 0.11	< 0.13	< 0.12	< 0.12
PCB 1260	0.5	< 0.13	< 0.13	< 0.13	< 0.12	< 0.13	< 0.15	< 0.12	< 0.13	< 0.13	< 0.13
Total PCBs	0	0	0	0	0	0	0	0	0	0	0
Metals - Total											
Arsenic	3	<u>9.5 J</u>	<u>5.2</u>	1.8 B	< 1.5	< 1.5	< 1.5	1.9 B	<u>9.1</u>	<u>7.1</u>	1.1 B
Iron	300	<u>35200 J</u>	<u>19900</u>	<u>24600</u>	<u>14100</u>	124	129	< 6.3	<u>45800</u>	<u>2280</u>	<u>942</u>
Lead	5	<u>19.5 J</u>	<u>9.1</u>	< 2.8 J	<u>24.1</u>	2.8 B	< 2.8	1.2 BJ	<u>31.5</u>	<u>594</u>	3.1
Manganese	50	<u>2060 J</u>	<u>805</u>	<u>1450</u>	<u>1650</u>	<u>487</u>	<u>343</u>	<u>352</u>	<u>3290</u>	<u>8270</u>	23.6
Metals - Dissolved											
Arsenic	3	< 1.5 J	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.1	< 1.5	< 1.5	< 1.1
Iron	300	157 J	< 25	<u>24300</u>	<u>329</u>	124	< 25	< 6.3	81.5 B	43.4 B	< 6.3
Lead	5	< 2.8 J	< 2.8	3 J	< 2.8	< 2.8	< 2.8	1.5 BJ	< 2.8	< 2.8	1.5 B
Manganese	50	<u>1040 J</u>	<u>484</u>	<u>1470</u>	<u>1530</u>	<u>487</u>	<u>335</u>	<u>333</u>	<u>1530</u>	<u>247</u>	9.1 B

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill Site										
Well	Sample Name	GWQS ¹	RW-1 (110104) 11/1/2004	RW-1(125.5-151) (3/30/05) 3/30/2005	RW-1(10-30)(4/1/05) 4/1/2005	RW-1(58-78)(4/1/05) 4/1/2005	RW-1(97-117)(4/1/05) 4/1/2005	RW-1 (10-30) 10/9/2006	RW-1 (58-78) 10/9/2006	RW-1 (97-117) 10/10/2006
Well	Sample Name	GWQS ¹	RW-1 (110104) 11/1/2004	RW-1(125.5-151) (3/30/05) 3/30/2005	RW-1(10-30)(4/1/05) 4/1/2005	RW-1(58-78)(4/1/05) 4/1/2005	RW-1(97-117)(4/1/05) 4/1/2005	RW-1 (10-30) 10/9/2006	RW-1 (58-78) 10/9/2006	RW-1 (97-117) 10/10/2006
Sample Date										
VOC										
Benzene	1	< 1	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.21	< 0.21	< 0.21
Ethylbenzene	700	< 1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.2	< 0.2	< 0.2
Toluene	1000	< 1	1.4	< 0.14	0.86 J	1.3	2.8	3.7	0.81 J	
Xylene, -m	NS	< 1	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.31	< 0.31	< 0.31
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA	NA	
Xylene, -o	NS	< 1	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.42	< 0.42	< 0.42
Xylenes	1,000	< 1	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.31	< 0.31	< 0.31
PCBs										
PCB 1016	0.5	< 0.53	< 0.075	< 0.083	< 0.076	< 0.079	< 0.1	< 0.1	< 0.1	< 0.094
PCB 1221	0.5	< 0.53	< 0.085	< 0.093	< 0.086	< 0.089	< 0.52	< 0.51	< 0.47	
PCB 1232	0.5	< 0.53	< 0.12	< 0.14	< 0.13	< 0.13	< 0.43	< 0.42	< 0.39	
PCB 1242	0.5	< 0.53	< 0.13	< 0.15	< 0.13	< 0.14	< 0.18	< 0.18	< 0.16	
PCB 1248	0.5	< 0.53	< 0.072	< 0.079	< 0.073	< 0.076	< 0.17	< 0.17	< 0.15	
PCB 1254	0.5	< 0.53	< 0.072	< 0.079	< 0.073	< 0.076	< 0.12	< 0.12	< 0.11	
PCB 1260	0.5	< 0.53	< 0.1	< 0.11	< 0.1	< 0.11	< 0.13	< 0.13	< 0.12	
Total PCBs	0.5	0	0	0	0	0	0	0	0	
Metals -Total										
Arsenic	3	< 5	< 5	< 5	< 5	< 5	< 1.5	< 1.5	< 1.5	
Iron	300	5140	101	1050	662	346	3910	641	1410 J	
Lead	5	< 3	< 3	< 3	< 3	< 3	< 2.6	< 2.6	< 2.6 J	
Manganese	50	32.2	16	21.1	18.9	23.8	113	18.9	124	
Metals -Dissolved										
Arsenic	3	< 5	< 5	< 5	< 5	< 5	< 1.5	< 1.5	< 1.5	
Iron	300	< 100	< 100	< 100	< 100	< 100	5030	< 67	< 67	
Lead	5	< 3	< 3	< 3	< 3	< 3	< 2.6	< 2.6	4.5 J	
Manganese	50	< 15	< 15	< 15	< 15	< 15	118	4 B	27.4	

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill										
Well	Sample Name	GWQS ¹	RW-1							
			RW-1 (125-145)	RW-1(10-31)(041807)	RW-1(58-79)(041807)	RW-1(97-118)(041807)	RW-1(125-146)(041807)	RW1(58-79)	RW1(97-118)	RW1(125-146)
Sample Date	Sample Date	10/10/2006	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	10/10/2007	10/10/2007	10/10/2007
VOC										
Benzene	1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.19	< 0.19	< 0.19
Ethylbenzene	700	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.21	< 0.21	< 0.21
Toluene	1000	0.74 J	2.3	2.2	1.3	1.3	0.88 J	0.69 J	0.54 J	
Xylene, -m	NS	< 0.31	NA	NA	NA	NA	NA	NA	NA	
Xylene, -m,p	NS	NA	< 0.42	< 0.42	< 0.42	< 0.42	< 0.35	< 0.35	< 0.35	
Xylene, -o	NS	< 0.42	< 0.31	< 0.31	< 0.31	< 0.31	< 0.2	< 0.2	< 0.2	
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.2	< 0.2	< 0.2	
PCBs										
PCB 1016	0.5	< 0.1	< 0.11	< 0.098	< 0.094	< 0.11	< 0.094	< 0.094	< 0.094	
PCB 1221	0.5	< 0.52	< 0.56	< 0.49	< 0.47	< 0.55	< 0.47	< 0.47	< 0.47	
PCB 1232	0.5	< 0.43	< 0.46	< 0.41	< 0.39	< 0.46	< 0.39	< 0.39	< 0.39	
PCB 1242	0.5	< 0.18	< 0.2	< 0.17	< 0.16	< 0.19	< 0.16	< 0.16	< 0.16	
PCB 1248	0.5	< 0.17	< 0.18	< 0.16	< 0.15	< 0.18	< 0.15	< 0.15	< 0.15	
PCB 1254	0.5	< 0.12	< 0.13	< 0.11	< 0.11	< 0.13	< 0.11	< 0.11	< 0.11	
PCB 1260	0.5	< 0.13	< 0.14	< 0.12	< 0.12	< 0.14	< 0.12	< 0.12	< 0.12	
Total PCBs	0.5	0	0	0	0	0	0	0	0	
Metals -Total										
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.1	< 1.1	< 1.1	
Iron	300	211 J	42.5 B	152	< 25	< 25	45.8 B	117	147	
Lead	5	< 2.6	3.8	3.1	< 2.8	< 2.8	< 0.94	< 0.94	1.2 B	
Manganese	50	44	19.4	28	2.5 BJ	15.7	3.2 B	7.8 B	26.3	
Metals -Dissolved										
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.1	< 1.1	< 1.1	
Iron	300	< 67	< 25	< 25	< 25	< 25	10.3 B	10.3 B	12.6 B	
Lead	5	< 2.6	< 2.8	< 2.8	< 2.8	< 2.8	< 0.94	< 0.94	< 0.94	
Manganese	50	34.7	10.4 B	5 B	0.99 B	11.6 B	2.2 B	1.9 B	19.4	

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill

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Well	Sample Name	GWQS ¹	RW-2					
			RW2(100-110)(081384) 8/13/1984	RW2(110-120)(081384) 8/13/1984	RW2(170-180)(081484) 8/14/1984	RW2(220-230)(081584) 8/15/1984	RW2(220-230)(081584)DUP 8/15/1984	RW2-265-275(081684) 8/16/1984
VOC								
Benzene	1	< 1		3	9.1	< 1	< 1	< 1
Ethylbenzene	700	< 1		< 1	< 1	< 1	< 1	< 1
Toluene	1000	< 1		< 1	< 1	< 1	< 1	< 1
Xylene, -m	NS	< 1		< 1	< 1	< 1	< 1	< 1
Xylene, -m,p	NS	< 1		< 1	< 1	< 1	< 1	< 1
Xylene, -o	NS	< 1		< 1	< 1	< 1	< 1	< 1
Xylenes	1,000	NA		NA	NA	NA	NA	NA
PCBs								
PCB 1016	0.5	NA		NA	NA	NA	NA	NA
PCB 1221	0.5	NA		NA	NA	NA	NA	NA
PCB 1232	0.5	NA		NA	NA	NA	NA	NA
PCB 1242	0.5	NA		NA	NA	NA	NA	NA
PCB 1248	0.5	NA		NA	NA	NA	NA	NA
PCB 1254	0.5	NA		NA	NA	NA	NA	NA
PCB 1260	0.5	NA		NA	NA	NA	NA	NA
Total PCBs	0.5	NA		NA	NA	NA	NA	NA
Metals -Total								
Arsenic	3	NA		NA	NA	NA	NA	NA
Iron	300	NA		NA	NA	NA	NA	NA
Lead	5	NA		NA	NA	NA	NA	NA
Manganese	50	NA		NA	NA	NA	NA	NA
Metals -Dissolved								
Arsenic	3	NA		NA	NA	NA	NA	NA
Iron	300	NA		NA	NA	NA	NA	NA
Lead	5	NA		NA	NA	NA	NA	NA
Manganese	50	NA		NA	NA	NA	NA	NA

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

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RW Wells - Ringwood Mines/Landfill		RW-2							
Well	Sample Name	GWQS ¹	RW2-360-370(081684) 8/16/1984	RW2-360-370(081684)Dup 8/16/1984	RW2-370-380(081684) 8/16/1984	RW2-400-410(081684) 8/16/1984	RW2-450-460(081684) 8/16/1984	RW2(360-370)(082984) 8/29/1984	RW2(360-370)(082984)DUP 8/29/1984
VOC									
Benzene	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Ethylbenzene	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	1000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene, -m	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene, -m,p	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene, -o	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA
PCBs									
PCB 1016	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Metals -Total									
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA
Metals -Dissolved									
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

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RW Wells - Ringwood Mines/Landfill										
Well	Sample Name	GWQS ¹	RW-2							
			RW2(360-370)(082984)-DUP 8/29/1984	RW2(370-380)(082984) 8/29/1984	RW2(400-410)(082984) 8/29/1984	RW2(450-460)(082984) 8/29/1984	RW2(250)(092084) 9/20/1984	RW2(061386) 6/13/1986	RW2(032488) 3/24/1988	RW-2(103089) 10/30/1989
VOC										
Benzene	1	< 1		< 1	< 1	< 1	< 1	< 10	< 5	< 2
Ethylbenzene	700	NA	< 1	< 1	< 1	NA	NA	< 10	< 5	< 2
Toluene	1000	NA	< 1	< 1	< 1	NA	NA	< 10	< 5	< 2
Xylene, -m	NS	NA	< 1	< 1	< 1	NA	NA	< 5	< 2	
Xylene, -m,p	NS	NA	< 1	< 1	< 1	NA	NA	< 5	< 2	
Xylene, -o	NS	NA	< 1	< 1	< 1	NA	NA	NA	NA	
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA	
PCBs										
PCB 1016	0.5	NA	NA	NA	NA	NA	NA	NA	NA	
PCB 1221	0.5	NA	NA	NA	NA	NA	NA	NA	NA	
PCB 1232	0.5	NA	NA	NA	NA	NA	NA	NA	NA	
PCB 1242	0.5	NA	NA	NA	NA	NA	NA	NA	NA	
PCB 1248	0.5	NA	NA	NA	NA	NA	NA	NA	NA	
PCB 1254	0.5	NA	NA	NA	NA	NA	NA	NA	NA	
PCB 1260	0.5	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	0.5	NA	NA	NA	NA	NA	NA	NA	NA	
Metals -Total										
Arsenic	3	NA	NA	NA	NA	NA	< 2	NA	< 2	
Iron	300	NA	NA	NA	NA	NA	NA	NA	<u>10800 JMt</u>	
Lead	5	NA	NA	NA	NA	NA	< 50	NA	NA	
Manganese	50	NA	NA	NA	NA	NA	NA	NA	<u>549</u>	
Metals -Dissolved										
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill

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Well	Sample Name	GWQS ¹	RW-2									RW2-(19-49)	RW2-(102-132)
			RW-2(012990) 1/29/1990	RW-2(042390) 4/23/1990	RW-2(072390) 7/23/1990	RW-2 (102.5-132.0') 10/26/2004	RW-2 (19.0-48.5') 10/26/2004	RW-2 (161.0'-190.5') 10/27/2004	RW-2 (278'-307.5') 10/27/2004	RW-2 (441-470.5') 10/28/2004	10/4/2006		
VOC													
Benzene	1	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 0.21	< 0.21	
Ethylbenzene	700	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 0.2	< 0.2	
Toluene	1000	< 2	< 2	< 2	12.5	3.4	10.5	2.8	2.4	1.1	2.1		
Xylene, -m	NS	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 0.31	< 0.31	
Xylene, -m,p	NS	< 2	< 2	< 2	NA	NA	NA	NA	NA	NA	NA	NA	
Xylene, -o	NS	NA	NA	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 0.42	< 0.42	
Xylenes	1,000	NA	NA	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 0.31	< 0.31	
PCBs													
PCB 1016	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59	< 0.11	< 0.1		
PCB 1221	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59	< 0.53	< 0.52		
PCB 1232	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59	< 0.44	< 0.43		
PCB 1242	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59	< 0.19	< 0.18		
PCB 1248	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59	< 0.17	< 0.17		
PCB 1254	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59	< 0.12	< 0.12		
PCB 1260	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59	< 0.13	< 0.13		
Total PCBs	0.5	NA	NA	NA	0	0	0	0	0	0	0	0	
Metals -Total													
Arsenic	3	< 2	< 5	< 5	< 5	< 5	< 5	< 5	6.8	< 1.5	< 1.5		
Iron	300	<u>15900 R</u>	<u>48700</u>	<u>15600</u>	<u>1540</u>	<u>466</u>	<u>25300</u>	<u>3270</u>	<u>2020</u>	<u>720</u>	<u>1260</u>		
Lead	5	< 5	NA	NA	7.3	< 3	64.6	7.6 J	45.5	< 2.6	< 2.6		
Manganese	50	<u>1010</u>	<u>719</u>	<u>725</u>	<u>2370</u>	<u>900</u>	<u>18900</u>	<u>3290</u>	<u>2700</u>	<u>630</u>	<u>1610</u>		
Metals -Dissolved													
Arsenic	3	NA	NA	NA	< 5	< 5	< 5	< 5	< 5	< 1.5	< 1.5		
Iron	300	NA	NA	NA	< 100	< 100	260 CJ	168 CJ	201	233	<u>303</u>		
Lead	5	NA	NA	NA	< 3	< 3	< 3	< 3	9.3	< 2.6	3.2		
Manganese	50	NA	NA	NA	<u>1140</u>	<u>754</u>	<u>1600</u>	<u>1310</u>	<u>1830</u>	<u>591</u>	<u>619</u>		

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill

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Well	Sample Name	GWQS ¹	RW-2								
			RW-2 (161-191) 10/5/2006	RW-2 (278-308) 10/6/2006	RW-2(19-50)((041007) 4/10/2007	RW-2(102-133)(041007) 4/10/2007	RW-2(161-192) 4/16/2007	RW-2(278-309)(041707) 4/17/2007	RW-2(441-472) 4/17/2007	RW2(161-192) 10/16/2007	RW2(278-309) 10/16/2007
VOC											
Benzene	1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.19	< 0.19
Ethylbenzene	700	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.21	< 0.21
Toluene	1000	3.2	1.4	3.3	23	21.5	15.3	5.1	55.2	10	21
Xylene, -m	NS	< 0.31	< 0.31	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.35	< 0.35
Xylene, -o	NS	< 0.42	< 0.42	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.2	< 0.2
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.2	< 0.2
PCBs											
PCB 1016	0.5	< 0.11	< 0.1	< 0.099	< 0.094	< 0.094	< 0.094	< 0.094	< 0.1	< 0.1	< 0.099
PCB 1221	0.5	< 0.56	< 0.52	< 0.49	< 0.47	< 0.47	< 0.47	< 0.47	< 0.5	< 0.52	< 0.49
PCB 1232	0.5	< 0.46	< 0.43	< 0.41	< 0.39	< 0.39	< 0.39	< 0.39	< 0.41	< 0.43	< 0.41
PCB 1242	0.5	< 0.2	< 0.18	< 0.17	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17	< 0.18	< 0.17
PCB 1248	0.5	< 0.18	< 0.17	< 0.16	< 0.15	< 0.15	< 0.15	< 0.15	< 0.16	< 0.17	< 0.16
PCB 1254	0.5	< 0.13	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.12	< 0.12	< 0.11
PCB 1260	0.5	< 0.14	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0
Metals - Total											
Arsenic	3	<u>3.6</u>	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.1	< 1.1	1.3 B
Iron	300	<u>12400</u>	<u>971</u>	<u>4580</u>	<u>7880</u>	<u>4690</u>	<u>1740</u>	<u>2170</u>	<u>653 J</u>	<u>1650 J</u>	<u>1140 J</u>
Lead	5	<u>16.5 J</u>	2.8 B	4.1	<u>11.2</u>	<u>14</u>	<u>5.9</u>	< 2.8	1.4 B	3.2	3.3
Manganese	50	<u>4170</u>	<u>1060</u>	<u>843</u>	<u>2590</u>	<u>3290</u>	<u>1350</u>	<u>1150</u>	<u>1510 J</u>	<u>1750 J</u>	<u>1510 J</u>
Metals - Dissolved											
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.1	< 1.1	< 1.1
Iron	300	206	163	205	216	179	55.4 B	< 25	16.5 BJ	22.5 BJ	34 BJ
Lead	5	< 2.6	3.6	< 2.8	< 2.8	< 2.8	<u>5.2</u>	< 2.8	< 0.94	< 0.94	< 0.94
Manganese	50	<u>702</u>	<u>517</u>	<u>816</u>	<u>298</u>	<u>463</u>	<u>311</u>	<u>201</u>	<u>1230 J</u>	<u>1040 J</u>	<u>1120 J</u>

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill

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Well	Sample Name	GWQS ¹	RW-3							
			RW-3(092084) 9/20/1984	RW3(061486) 6/14/1986	RW3(032488) 3/24/1988	RW-3(103089) 10/30/1989	RW-3(012990) 1/29/1990	RW-3(042390) 4/23/1990	RW-3(072390) 7/23/1990	RW3(011492) 1/14/1992
VOC										
Benzene	1	< 10	< 10	< 5	< 2	< 2	< 2	< 2	< 1	6
Ethylbenzene	700	< 10	< 10	< 5	< 2	< 2	< 2	< 2	< 5	< 5
Toluene	1000	< 10	< 10	< 5	< 2	< 2	< 2	< 2	< 5	< 5
Xylene, -m	NS	NA	NA	< 5	< 2	< 2	< 2	< 2	< 5	< 5
Xylene, -m,p	NS	NA	NA	< 5	< 2	< 2	< 2	< 2	NA	NA
Xylene, -o	NS	NA	NA	NA	NA	NA	NA	NA	< 5	< 5
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs										
PCB 1016	0.5	< 1	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	< 1	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	< 1	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	< 1	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	< 1	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	< 1	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	< 1	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.5	0	NA	NA	NA	NA	NA	NA	NA	NA
Metals -Total										
Arsenic	3	< 5	< 2	NA	< 2	< 2	< 5	< 5	5	34.4
Iron	300	160	NA	NA	5990 JMt	14500	40000	11100	47200	87700
Lead	5	50	< 50	NA	NA	< 5	NA	NA	< 20.8	34.1
Manganese	50	130	NA	NA	218	255	891	206	1100	2160
Metals -Dissolved										
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill											
Well	Sample Name	GWQS ¹	RW-3								RW3(62-98)
			RW003(021893) 2/18/1993	RW-3(021893) 2/18/1993	RW-3(072793) 7/27/1993	RW3(022295) 2/22/1995	RW3(022695) 2/26/1995	RW3(080795) 8/7/1995	RW-3 (65-100') 10/29/2004	RW-3(65-100) 9/29/2006	
VOC											
Benzene	1	NA	< 1	< 1	< 1	NA	< 1	< 1	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	NA	< 5	< 5	< 10	NA	< 10	< 1	< 0.2	< 0.2	< 0.21
Toluene	1000	NA	< 5	< 5	< 10	NA	< 10	0.62 J	1.4	3.1	< 0.21
Xylene, -m	NS	NA	< 5	< 5	< 10	NA	< 10	< 1	< 0.31	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA	0.61 J	< 0.35	
Xylene, -o	NS	NA	< 5	< 5	< 10	NA	< 10	< 1	< 0.42	< 0.31	< 0.2
Xylenes	1,000	NA	NA	NA	NA	NA	NA	< 1	< 0.31	0.61 J	< 0.2
PCBs											
PCB 1016	0.5	NA	NA	NA	NA	NA	NA	< 0.5	< 0.1	< 0.1	< 0.094
PCB 1221	0.5	NA	NA	NA	NA	NA	NA	< 0.5	< 0.52	< 0.52	< 0.47
PCB 1232	0.5	NA	NA	NA	NA	NA	NA	< 0.5	< 0.43	< 0.43	< 0.39
PCB 1242	0.5	NA	NA	NA	NA	NA	NA	< 0.5	< 0.18	< 0.18	< 0.16
PCB 1248	0.5	NA	NA	NA	NA	NA	NA	< 0.5	< 0.17	< 0.17	< 0.15
PCB 1254	0.5	NA	NA	NA	NA	NA	NA	< 0.5	< 0.12	< 0.12	< 0.11
PCB 1260	0.5	NA	NA	NA	NA	NA	NA	< 0.5	< 0.13	< 0.13	< 0.12
Total PCBs	0.5	NA	NA	NA	NA	NA	NA	0	0	0	0
Metals -Total											
Arsenic	3	2.6 B	NA	< 2	NA	< 2	< 1	< 5	< 1.5	< 1.5	< 1.1
Iron	300	<u>23900</u>	NA	<u>5200</u>	NA	<u>8010</u>	<u>2460</u>	<u>3450 J</u>	<u>407</u>	240	<u>3470</u>
Lead	5	<u>6.3</u>	NA	< 1.3	NA	< 2	< 0.48	< 3	< 2.6	3	< 0.94
Manganese	50	<u>551</u>	NA	<u>184</u>	NA	<u>110</u>	<u>71</u>	<u>140</u>	<u>150</u>	<u>101</u>	<u>172</u>
Metals -Dissolved											
Arsenic	3	NA	NA	NA	NA	NA	NA	< 5	< 1.5	< 1.5	< 1.1
Iron	300	NA	NA	NA	NA	NA	NA	166	157	25.3 B	32.7 B
Lead	5	NA	NA	NA	NA	NA	NA	< 3	< 2.6	< 2.8	< 0.94
Manganese	50	NA	NA	NA	NA	NA	NA	<u>128</u>	<u>144</u>	<u>103</u>	<u>146</u>

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill

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Well	Sample Name	GWQS ¹	RW-4								
			RW-4(092084) 9/3/1984	RW-4(092084) Dup 9/3/1984	RW4(115)(092084) 9/3/1984	RW4(250)(092084) 9/3/1984	RW4(330)(092084) 9/3/1984	RW4(400)(092084) 9/3/1984	RW4(061486) 6/14/1986	RW4(032488) 3/24/1988	RW-4 (56.5-75.5') 10/22/2004
VOC											
Benzene	1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 10	< 5	< 0.31
Ethylbenzene	700	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 10	< 5	< 0.27
Toluene	1000	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 10	< 5	0.49 J
Xylene, -m	NS	NA	NA	< 1	< 1	< 1	< 1	< 1	NA	< 5	< 0.17
Xylene, -m,p	NS	NA	NA	< 1	< 1	< 1	< 1	< 1	NA	< 5	NA
Xylene, -o	NS	NA	NA	< 1	< 1	< 1	< 1	< 1	NA	< 0.36	< 0.36
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	< 0.17
PCBs											
PCB 1016	0.5	< 1	< 1	NA	NA	NA	NA	NA	NA	< 0.075	< 0.075
PCB 1221	0.5	< 1	< 1	NA	NA	NA	NA	NA	NA	< 0.085	< 0.085
PCB 1232	0.5	< 1	< 1	NA	NA	NA	NA	NA	NA	< 0.12	< 0.12
PCB 1242	0.5	< 1	< 1	NA	NA	NA	NA	NA	NA	< 0.13	< 0.13
PCB 1248	0.5	< 1	< 1	NA	NA	NA	NA	NA	NA	< 0.072	< 0.072
PCB 1254	0.5	< 1	< 1	NA	NA	NA	NA	NA	NA	< 0.072	< 0.072
PCB 1260	0.5	< 1	< 1	NA	NA	NA	NA	NA	NA	< 0.1	< 0.1
Total PCBs	0.5	0	0	NA	NA	NA	NA	NA	NA	0	0
Metals -Total											
Arsenic	3	< 5	< 5	NA	NA	NA	NA	< 2	NA	< 5	< 5
Iron	300	<u>420</u>	<u>390</u>	NA	NA	NA	NA	NA	NA	<u>1520</u>	<u>1060</u>
Lead	5	< 50	< 50	NA	NA	NA	NA	< 50	NA	4.4	<u>18.6</u>
Manganese	50	< 20	< 20	NA	NA	NA	NA	NA	NA	16.3 J	< 15 J
Metals -Dissolved											
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA	< 5	< 5
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	< 100	< 100
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA	< 3	< 3
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	< 15 J	< 15 J

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

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RW Wells - Ringwood Mines/Landfill											
Well	Sample Name	GWQS ¹	RW-4								RW-4(388-409)(040907)
			10/25/2004	10/25/2004	10/2/2006	10/2/2006	10/3/2006	10/3/2006	4/6/2007	4/9/2007	
VOC											
Benzene	1	< 0.31	< 0.31	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	
Ethylbenzene	700	1.4	1.3	< 0.2	< 0.2	< 0.2	< 0.2	0.29 J	< 0.2	< 0.2	
Toluene	1000	21.2	17.8	2.1	< 0.2	< 0.2	0.45 J	21.7	1.1	2.1	
Xylene, -m	NS	0.61 J	0.59 J	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	NA	
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	0.88 J	< 0.42	< 0.42	
Xylene, -o	NS	3.9	3.4	< 0.42	< 0.42	< 0.42	< 0.42	< 0.31	< 0.31	< 0.31	
Xylenes	1,000	4.6	4	< 0.31	< 0.31	< 0.31	< 0.31	1.1	< 0.31	< 0.31	
PCBs											
PCB 1016	0.5	< 0.076	< 0.076	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
PCB 1221	0.5	< 0.086	< 0.086	< 0.56	< 0.52	< 0.52	< 0.52	< 0.51	< 0.52	< 0.51	
PCB 1232	0.5	< 0.13	< 0.13	< 0.46	< 0.43	< 0.43	< 0.43	< 0.42	< 0.43	< 0.42	
PCB 1242	0.5	< 0.13	< 0.13	< 0.2	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	
PCB 1248	0.5	< 0.073	< 0.073	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	
PCB 1254	0.5	< 0.073	< 0.073	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	
PCB 1260	0.5	< 0.1	< 0.1	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.12	
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	
Metals -Total											
Arsenic	3	< 5	< 5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	
Iron	300	<u>20000</u>	<u>15900</u>	<u>33000</u>	<u>786</u>	<u>475</u>	<u>725</u>	<u>12400</u>	<u>487</u>	<u>1350</u>	
Lead	5	<u>12.6</u>	<u>12.5</u>	<u>6.3</u>	< 2.6	< 2.6	3.7	5	< 2.8	< 2.8	
Manganese	50	<u>80.5 J</u>	<u>62.5 J</u>	<u>130</u>	3.6 B	4.3 BJ	4 BJ	<u>55.9</u>	3.1 B	6.4 B	
Metals -Dissolved											
Arsenic	3	< 5	< 5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	
Iron	300	< 100	< 100	154	67.7 B	< 67	< 67	62.1 B	< 25	< 25	
Lead	5	< 3	3	< 2.6	< 2.6	< 2.6	< 2.6	< 2.8	< 2.8	< 2.8	
Manganese	50	23.4 J	18.8 J	39.4	2.4 B	4.1 BJ	2.4 BJ	24.9	2.3 B	3 B	
All results are in micrograms per liter (u											
See footnotes for additional information											

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill		RW-4			
Well	GWQS ¹	RW4 (56-77) 10/11/2007	RW4 (108-129) 10/11/2007	RW4 (328-349) 10/11/2007	RW4 (388-409) 10/11/2007
Sample Name					
Sample Name	GWQS ¹	RW4 (56-77) 10/11/2007	RW4 (108-129) 10/11/2007	RW4 (328-349) 10/11/2007	RW4 (388-409) 10/11/2007
Sample Date					
VOC					
Benzene	1	< 0.19	< 0.19	< 0.19	< 0.19
Ethylbenzene	700	1.3	< 0.21	< 0.21	< 0.21
Toluene	1000	97.1	0.95 J	1.1	0.54 J
Xylene, -m	NS	NA	NA	NA	NA
Xylene, -m,p	NS	4.5	< 0.35	< 0.35	< 0.35
Xylene, -o	NS	0.95 J	< 0.2	< 0.2	< 0.2
Xylenes	1,000	5.4	< 0.2	< 0.2	< 0.2
PCBs					
PCB 1016	0.5	< 0.099	< 0.094	< 0.1	< 0.094
PCB 1221	0.5	< 0.49	< 0.47	< 0.51	< 0.47
PCB 1232	0.5	< 0.41	< 0.39	< 0.42	< 0.39
PCB 1242	0.5	< 0.17	< 0.16	< 0.18	< 0.16
PCB 1248	0.5	< 0.16	< 0.15	< 0.16	< 0.15
PCB 1254	0.5	< 0.11	< 0.11	< 0.12	< 0.11
PCB 1260	0.5	< 0.12	< 0.12	< 0.13	< 0.12
Total PCBs	0.5	0	0	0	0
Metals -Total					
Arsenic	3	< 1.1	< 1.1	< 1.1	< 1.1
Iron	300	1170	765	798	2890
Lead	5	1.6 B	< 0.94	2.1 B	2.4 B
Manganese	50	35.6	2.2 B	4.7 B	9.9 B
Metals -Dissolved					
Arsenic	3	< 1.1	1.5 B	< 1.1	< 1.1
Iron	300	36.9 B	< 6.3	31.6 J	26.9 J
Lead	5	< 0.94	< 0.94	< 0.94	< 0.94
Manganese	50	32.9	1 BJ	3.8 B	4.3 B

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill												Page 42 of 47
Well	Sample Name	GWQS ¹	RW-5									RW-5A(071015)
			19BR-(65-75) 5/16/2006	19BR-(100-120) 5/17/2006	RW-05(40-51) 9/27/2006	RW-05(53-64) 9/27/2006	RW-5(64-75) 9/29/2006	RW-5 (100-120) 10/5/2006	RW-5(65-76)(041207) 4/12/2007	RW-5(97-118) 4/12/2007	RW-5(40-51)(041307) 4/13/2007	
VOC												
Benzene	1	<u>3.4</u>	<u>3</u>	1	<u>3</u>	< 0.21	<u>1.8</u>	<u>1.5</u>	<u>2.6</u>	<u>1.9</u>	<u>1.8</u>	< 0.19
Ethylbenzene	700	5.8	< 0.2	0.67 J	0.38 J	< 0.2	< 0.2	0.32 J	< 0.2	0.33 J	< 0.21	< 0.21
Toluene	1000	28.2	6.4	21.8	2	0.71 J	7.2	27.1 J	89.7	31.5	< 0.21	< 0.21
Xylene, -m	NS	13.1	0.67 J	0.86 J	< 0.31	< 0.31	< 0.31	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	0.97 J	0.44 J	1.2	< 0.35	< 0.35
Xylene, -o	NS	35.1	3	2.1	6	< 0.42	< 0.42	< 0.31	< 0.31	0.34 J	< 0.2	< 0.2
Xylenes	1,000	48.3	3.7	2.9	6	< 0.31	< 0.31	0.97	0.44 J	1.5	< 0.2	< 0.2
PCBs												
PCB 1016	0.5	NA	< 0.094	< 0.15	< 0.11	< 0.11	< 0.11	< 0.094	< 0.1	< 0.094	< 0.1	< 0.1
PCB 1221	0.5	NA	< 0.47	< 0.76	< 0.55	< 0.53	< 0.54	< 0.47	< 0.51	< 0.47	< 0.51	< 0.51
PCB 1232	0.5	NA	< 0.39	< 0.63	< 0.45	< 0.44	< 0.45	< 0.39	< 0.42	< 0.39	< 0.42	< 0.42
PCB 1242	0.5	NA	< 0.16	< 0.26	< 0.19	< 0.18	< 0.19	< 0.16	< 0.18	< 0.16	< 0.18	< 0.18
PCB 1248	0.5	NA	< 0.15	< 0.25	< 0.18	< 0.17	< 0.18	< 0.15	< 0.16	< 0.15	< 0.16	< 0.17
PCB 1254	0.5	NA	< 0.11	< 0.18	< 0.13	< 0.12	< 0.13	< 0.11	< 0.12	< 0.11	< 0.12	< 0.12
PCB 1260	0.5	NA	< 0.12	< 0.19	< 0.14	< 0.13	< 0.13	< 0.12	< 0.13	< 0.12	< 0.13	< 0.13
Total PCBs	0.5	NA	0	0	0	0	0	0	0	0	0	0
Metals -Total												
Arsenic	3	<u>17.7</u>	< 3.1	1.7 B	< 1.5	< 1.5	<u>4.7</u>	< 1.5	< 1.5	< 1.5	< 1.1	< 1.1
Iron	300	<u>14900 J</u>	<u>2510 J</u>	<u>7050</u>	<u>39300</u>	<u>4860</u>	<u>5350</u>	<u>12200</u>	<u>1980</u>	<u>21400</u>	<u>4700</u>	<u>524</u>
Lead	5	<u>39.8</u>	3.3	<u>68.4</u>	< 2.6	<u>24.7</u>	<u>32.7</u>	<u>13.9</u>	<u>7</u>	<u>44.3</u>	1.5 B	1.9 B
Manganese	50	<u>8270</u>	<u>2460</u>	<u>1610</u>	<u>12400</u>	<u>4140</u>	<u>1890</u>	<u>3550</u>	<u>5340</u>	<u>3970</u>	<u>5050</u>	<u>364</u>
Metals -Dissolved												
Arsenic	3	NA	< 3.1	< 1.5	< 1.5	< 1.5	< 1.5	NA	< 1.5	< 0.94	< 1.1	< 1.1
Iron	300	NA	235 J	<u>2490</u>	<u>39700</u>	67.4 B	118	NA	<u>950</u>	< 25	<u>1280</u>	< 6.3
Lead	5	NA	< 2.6	< 2.6	< 2.6	< 7.8	< 2.6	NA	4.6	< 2.8	1 B	< 0.94
Manganese	50	NA	<u>2160 J</u>	<u>1610</u>	<u>12600</u>	<u>4070</u>	<u>1980</u>	NA	<u>5330</u>	<u>2920</u>	<u>4860</u>	<u>396</u>

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill

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Well	Sample Name	GWQS ¹	RW-6								
			20BR-(53-64) 5/11/2006	20BR-(70-81) 5/11/2006	20BR-(100-120) 5/12/2006	RW-06(70-81) 9/27/2006	RW-6 (100-120) 10/10/2006	RW-06(53-64) (040207) 4/2/2007	RW-06(70-81)(040307) 4/3/2007	RW-6(98-119)(040507) 4/6/2007	RW-6 (071011) 10/11/2007
VOC											
Benzene	1	<u>2.9</u>	<u>2.6</u>	<u>3.8</u>	<u>2.6</u>	<u>4</u>	<u>2.6</u>	<u>1.9</u>	<u>2.7</u>	<u>2.6</u>	<u>5.5</u>
Ethylbenzene	700	0.56 J	0.88 J	0.28 J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.21	15.2
Toluene	1000	2.4	0.95 J	25.7	3.8	2.2	0.54 J	0.69 J	88.4	< 0.21	< 0.21
Xylene, -m	NS	0.44 J	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	6.5	0.55 J	2	< 0.35	240
Xylene, -o	NS	7.1	6.2	2.2	3.3	< 0.42	< 0.31	< 0.31	< 0.31	< 0.2	2.6
Xylenes	1,000	7.6	6.2	2.2	3.3	< 0.31	6.5	0.55 J	2	< 0.2	242
PCBs											
PCB 1016	0.5	< 0.098	< 0.094	NA	< 0.11	< 0.12	< 0.11	< 0.1	< 0.1	< 0.094	< 0.1
PCB 1221	0.5	< 0.49	< 0.47	NA	< 0.53	< 0.59	< 0.53	< 0.52	< 0.51	< 0.47	< 0.5
PCB 1232	0.5	< 0.41	< 0.39	NA	< 0.44	< 0.49	< 0.44	< 0.43	< 0.42	< 0.39	< 0.41
PCB 1242	0.5	< 0.17	< 0.16	NA	< 0.19	< 0.21	< 0.18	< 0.18	< 0.18	< 0.16	< 0.17
PCB 1248	0.5	< 0.16	< 0.15	NA	< 0.17	< 0.19	< 0.17	< 0.17	< 0.16	< 0.15	< 0.16
PCB 1254	0.5	< 0.11	< 0.11	NA	< 0.12	< 0.14	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12
PCB 1260	0.5	< 0.12	< 0.12	NA	< 0.13	< 0.15	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12
Total PCBs	0.5	0	0	NA	0	0	0	0	0	0	0
Metals -Total											
Arsenic	3	< 8	< 8	< 8	< 1.5	< 1.5	1.7 B	< 1.5	< 1.5	2.5 B	< 1.1
Iron	300	<u>30200</u>	<u>9600</u>	<u>30500</u>	<u>14900</u>	<u>33200 J</u>	<u>44100</u>	<u>16000</u>	<u>39200</u>	<u>50800</u>	<u>11700 J</u>
Lead	5	3.2	< 3	<u>16.1</u>	< 2.6	<u>6.9 J</u>	4.5	<u>32.3 J</u>	4.6	< 0.94	< 0.94
Manganese	50	<u>12000</u>	<u>12000</u>	<u>7340</u>	<u>12400</u>	<u>7440</u>	<u>11700</u>	<u>11300</u>	<u>6620</u>	<u>5210</u>	<u>11200</u>
Metals -Dissolved											
Arsenic	3	< 8	< 8	NA	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	1.2 B	< 1.1
Iron	300	<u>22200</u>	<u>6530</u>	NA	<u>11900</u>	<u>30000 J</u>	<u>42800</u>	<u>15200</u>	<u>36800</u>	<u>29700</u>	<u>5520 J</u>
Lead	5	< 3	< 3	NA	< 2.6	3.1 J	2.9 B	< 2.8	< 2.8	1.3 B	< 0.94
Manganese	50	<u>11700</u>	<u>11200</u>	NA	<u>12000</u>	<u>7410</u>	<u>11700</u>	<u>11300</u>	<u>6460</u>	<u>5360</u>	<u>11100</u>

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill									
Well	Sample Name	GWQS ¹	RW-7						
			21BR-(34-45) 5/9/2006	21BR-(49-60) 5/9/2006	21BR(80-100) 5/10/2006	21BR(105-120) 5/10/2006	RW-07(34-35) 9/26/2006	RW-07(49-60) 9/26/2006	RW-07(80-100) 9/28/2006
VOC									
Benzene	1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Ethylbenzene	700	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Toluene	1000	0.98 J	1.1	0.79 J	3.4	20.6	3.7	1	1.8
Xylene, -m	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -o	NS	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
PCBs									
PCB 1016	0.5	< 0.1	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.098	< 0.1
PCB 1221	0.5	< 0.51	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.49	< 0.51
PCB 1232	0.5	< 0.42	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.41	< 0.42
PCB 1242	0.5	< 0.18	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17	< 0.18
PCB 1248	0.5	< 0.17	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.16	< 0.17
PCB 1254	0.5	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.12
PCB 1260	0.5	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.13
Total PCBs	0.5	0	0	0	0	0	0	0	0
Metals -Total									
Arsenic	3	< 8	< 8	< 8	< 8	< 1.5	< 1.5 J	< 1.5	< 1.5
Iron	300	8360	2160	416	147	1570	997	378	175
Lead	5	< 3 J	< 3 J	< 3	< 3	< 2.6	< 2.6	< 2.6	< 2.6
Manganese	50	92.4 J	18.7 J	< 15	< 15	23	6.6 BJ	8.5 B	6.8 B
Metals -Dissolved									
Arsenic	3	< 8	< 8	< 8	< 8	< 1.5	1.8 BJ	< 1.5	< 1.5
Iron	300	< 100	< 100	< 100	< 100	108	90.9 B	85.9 B	< 67
Lead	5	< 3 J	< 3 J	< 3	3.8	< 2.6	< 2.6	< 2.6	< 2.6
Manganese	50	26.6 J	< 15 J	< 15	< 15	12.9 B	4.6 BJ	5.5 B	5.6 B

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill

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Well	Sample Name	GWQS ¹	RW-7			
			RW-07(34-45)(040307) 4/3/2007	RW-07(80-101)(040307) 4/3/2007	RW-7(49-60) (040407) 4/4/2007	RW-7(103-119) (040407) 4/4/2007
VOC						
Benzene	1		< 0.21	< 0.21	< 0.21	< 0.19
Ethylbenzene	700		< 0.2	< 0.2	< 0.2	< 0.21
Toluene	1000		0.54 J	2.6	2.7	1.8
Xylene, -m	NS		NA	NA	NA	NA
Xylene, -m,p	NS		< 0.42	< 0.42	< 0.42	< 0.35
Xylene, -o	NS		< 0.31	< 0.31	< 0.31	< 0.2
Xylenes	1,000		< 0.31	< 0.31	< 0.31	< 0.2
PCBs						
PCB 1016	0.5		< 0.11	< 0.1	< 0.1 J	< 0.094
PCB 1221	0.5		< 0.53	< 0.52	< 0.51 J	< 0.47
PCB 1232	0.5		< 0.44	< 0.43	< 0.42 J	< 0.39
PCB 1242	0.5		< 0.18	< 0.18	< 0.18 J	< 0.16
PCB 1248	0.5		< 0.17	< 0.17	< 0.16 J	< 0.15
PCB 1254	0.5		< 0.12	< 0.12	< 0.12 J	< 0.11
PCB 1260	0.5		< 0.13	< 0.13	< 0.13 J	< 0.12
Total PCBs	0.5		0	0	0	0
Metals -Total						
Arsenic	3		< 1.5	< 1.5	< 1.5	< 1.1
Iron	300		3150	490	213	342
Lead	5		< 2.8	< 2.8	< 2.8	< 0.94
Manganese	50		63.9	7.6 B	8 B	4.3 B
Metals -Dissolved						
Arsenic	3		< 1.5	< 1.5	< 1.5	< 1.1
Iron	300		55.5 B	< 25	< 25	35 B
Lead	5		< 2.8	< 2.8	< 2.8	< 0.94
Manganese	50		8.2 B	4.1 B	3.4 B	2.8 B
						6 BJ

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Historical Well Sampling Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

RW Wells - Ringwood Mines/Landfill		SC-1		
Well	GWQS ¹	SC-1	SC1(041107)	SC-1(071016)
Sample Name		10/5/2006	4/11/2007	10/16/2007
Sample Date				
VOC				
Benzene	1	< 0.21	<u>1.4</u>	<u>1.5</u>
Ethylbenzene	700	< 0.2	6.7	2.7
Toluene	1000	< 0.2	1.7	1.3
Xylene, -m	NS	< 0.31	NA	NA
Xylene, -m,p	NS	NA	76.7	51
Xylene, -o	NS	< 0.42	6	3.8
Xylenes	1,000	< 0.31	82.8	54.8
PCBs				
PCB 1016	0.5	< 0.094	< 0.1	< 0.094
PCB 1221	0.5	< 0.47	< 0.52	< 0.47
PCB 1232	0.5	< 0.39	< 0.43	< 0.39
PCB 1242	0.5	< 0.16	< 0.18	< 0.16
PCB 1248	0.5	< 0.15	< 0.17	< 0.15
PCB 1254	0.5	< 0.11	< 0.12	< 0.11
PCB 1260	0.5	< 0.12	< 0.13	< 0.12
Total PCBs	0.5	0	0	0
Metals -Total				
Arsenic	3	< 1.5	< 1.5	< 1.1
Iron	300	265	<u>39800</u>	<u>60800 J</u>
Lead	5	< 2.6	<u>6.3</u>	<u>8.8</u>
Manganese	50	46.7	<u>411</u>	<u>655</u>
Metals -Dissolved				
Arsenic	3	1.7 B	< 1.5	< 1.1
Iron	300	269	<u>38400</u>	<u>45300 J</u>
Lead	5	< 2.6	< 2.8	1.6 B
Manganese	50	44.1	<u>410</u>	<u>630</u>

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Footnotes to Historical Well Sampling Data**Footnotes:**

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Results are presented in microgram per liter (ug/L).

< Not detected.

NA Not analyzed.

NS No standard.

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

R Rejected result.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.


PCBs Polychlorinated biphenyls.

¹ Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey

Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria

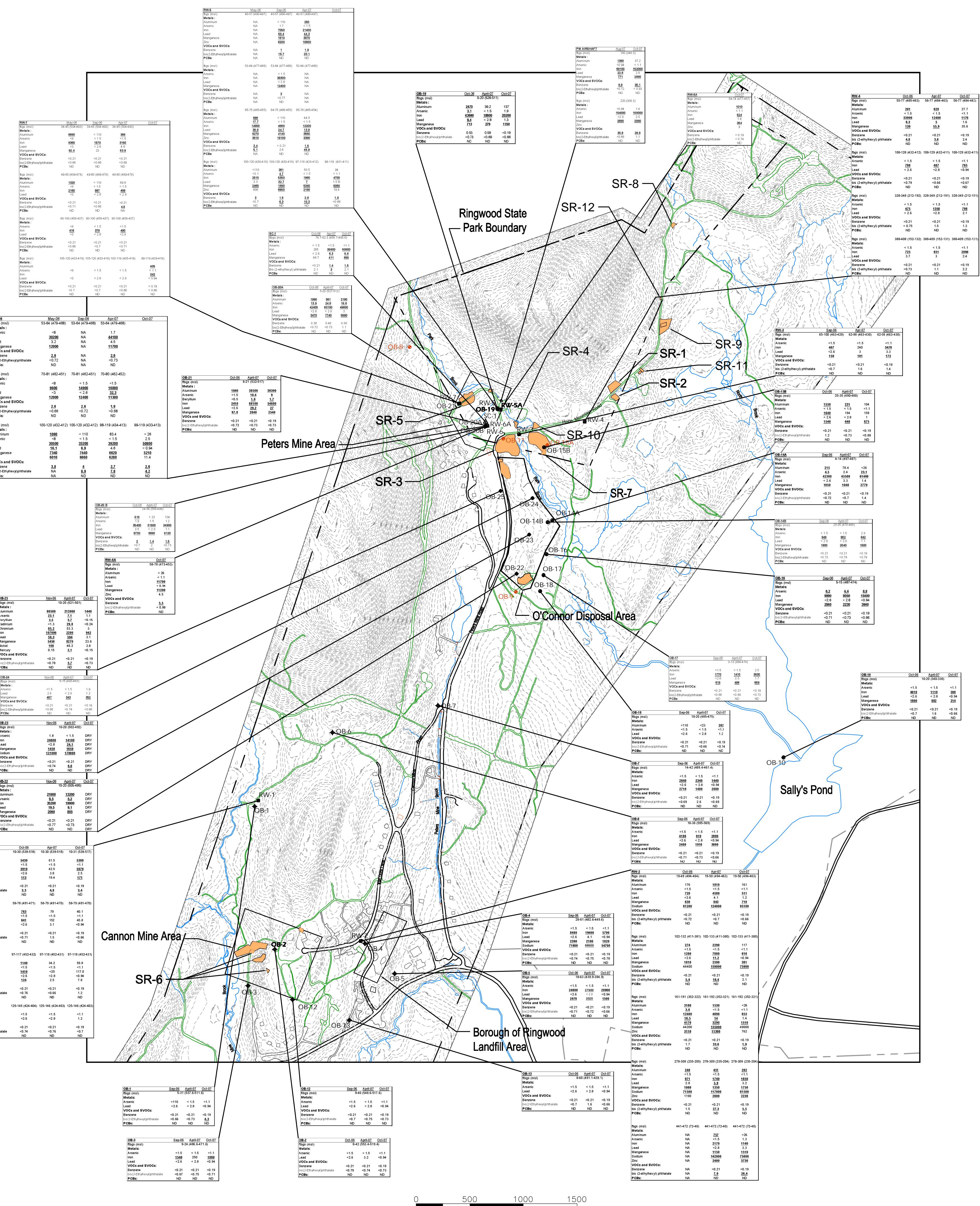
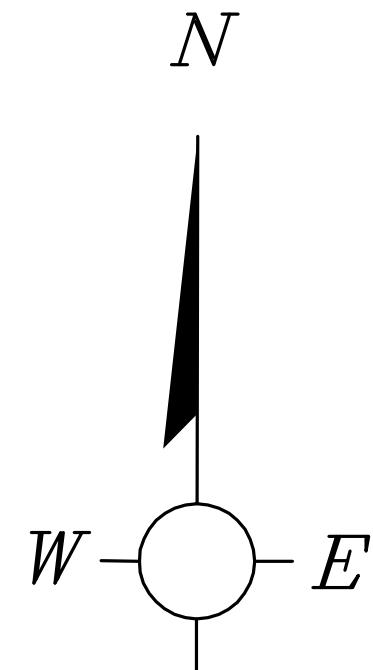
select 2004 criteria are presented in [].

Bold Value is above the Ground Water Quality Standard



LEGEND

- ◆ BEDROCK WELL
 - DEEP BEDROCK WELL
 - △ DIRECTIONAL WELL
 - UNCONSOLIDATED WELL
 - ✖ MONITORING WELL DAMAGED OR NOT AVAILABLE FOR SAMPLING
- PAINT SLUDGE REMOVAL AREA



LEGEND

- SAMPLE ID**: OB-1, OB-2, OB-3, OB-4, OB-5, OB-6, OB-7, OB-8, OB-9, OB-10, OB-11, OB-12, OB-13, OB-14, OB-15, OB-16, OB-17, OB-18, OB-19, OB-20, OB-21, OB-22, OB-23, OB-24, OB-25, OB-26, OB-27, OB-28, OB-29, OB-30, OB-31, OB-32, OB-33, OB-34, OB-35, OB-36, OB-37, OB-38, OB-39, OB-40, OB-41, OB-42, OB-43.
- CONSTITUENT**: Metals, Arsenic, Barium, Cadmium, Chromium, Iron, Lead, Manganese, Nickel, Sodium, Zinc, VOCs and SVOCs.
- NOTES**:
- DATA QUALIFIERS WERE NOT PROVIDED ON DRAWINGS. DATA QUALIFIERS ARE PROVIDED IN ANALYTICAL REPORTS.
 - WHEN A DUPLICATE SAMPLE ANALYSIS WAS PERFORMED, THE DATA REPORTED ON THE DRAWING IS THE GREATER OF THE TWO ANALYTICAL RESULTS.
 - EXISTING CONTOURS DEPICT TOPOGRAPHY PRIOR TO REMOVAL ACTIVITIES.
 - SAMPLE DEPTHS ARE APPROXIMATE.
 - PCB RESULTS ARE REPORTED AS TOTAL PCBs.
 - ALL RESULTS ARE PRESENTED AS MICROGRAM PER LITER ($\mu\text{g/l}$).
 - CONCENTRATIONS OF METALS ARE SHOWN FOR THE UNFILTERED SAMPLES, OR TOTAL METAL CONCENTRATIONS.

fbgs FEET BELOW GROUND SURFACE

msl MEAN SEA LEVEL

dry WELL NOT SAMPLED, BECAUSE WELL WAS DRY DURING SAMPLING EVENT

Constituent	Higher of PQL or NJDEP Groundwater Quality Criteria
Metals	200
Arsenic	3
Beryllium	1
Cadmium	4
Chromium	70
Iron	300
Lead	5
Manganese	50
Mercury	2
Nickel	100
Sodium	50000
Zinc	2000
VOCs and SVOCs	1
Benzene	2
bis(2-ethylhexyl)phthalate	3

PROJECT TITLE
RINGWOOD MINE/LANDFILL SITE
RINGWOOD, NEW JERSEY

PROJECT MANAGER E. ZIMMERMAN

DEPARTMENT MANAGER C. MOTTA

LEAD DESIGN PROF. J. SEIER

CHECKED BY E. ZIMMERMAN

SHEET TITLE

TASK/PHASE NUMBER 00001

DRAWN BY J. GONZALEZ

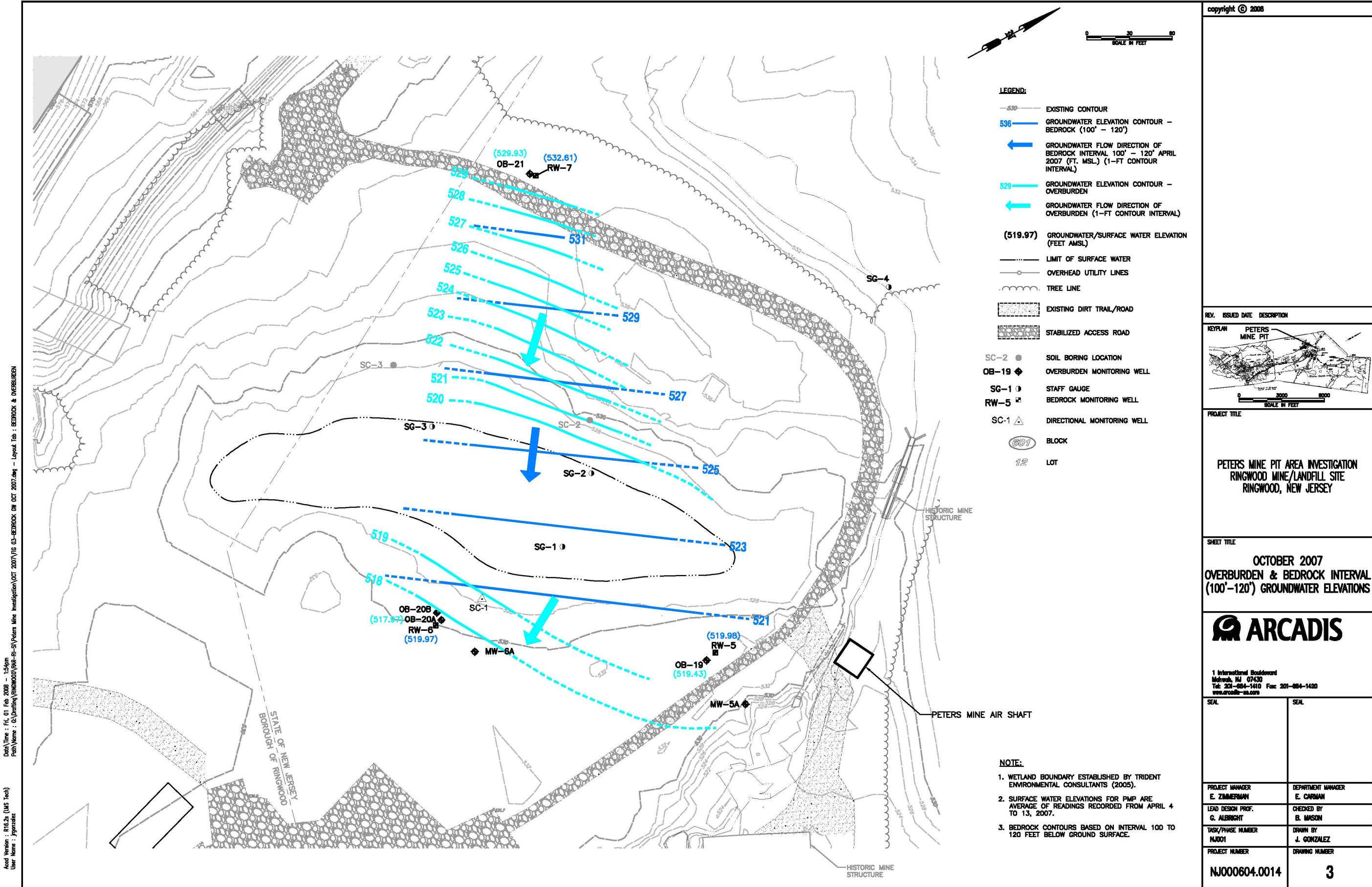
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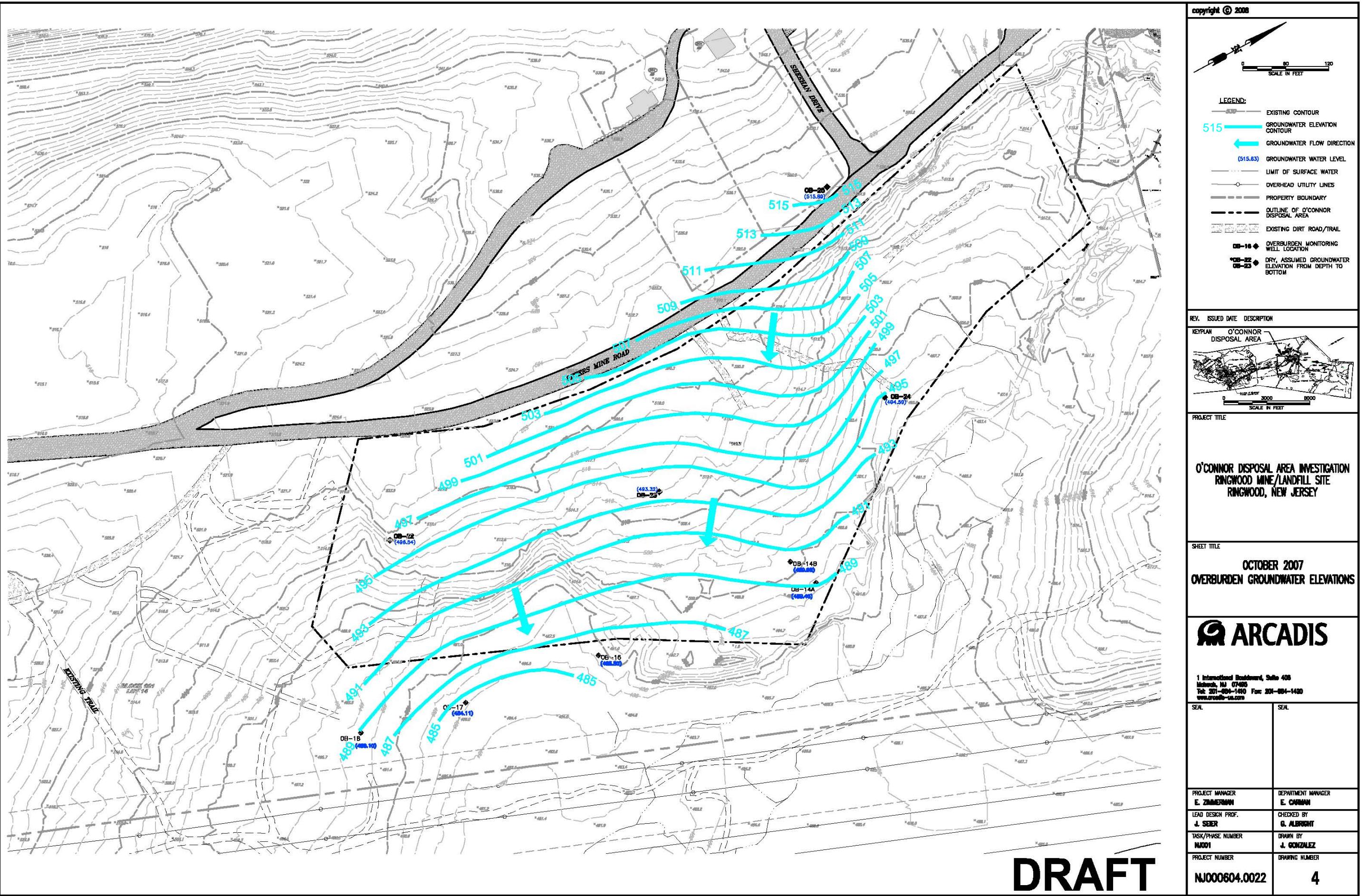
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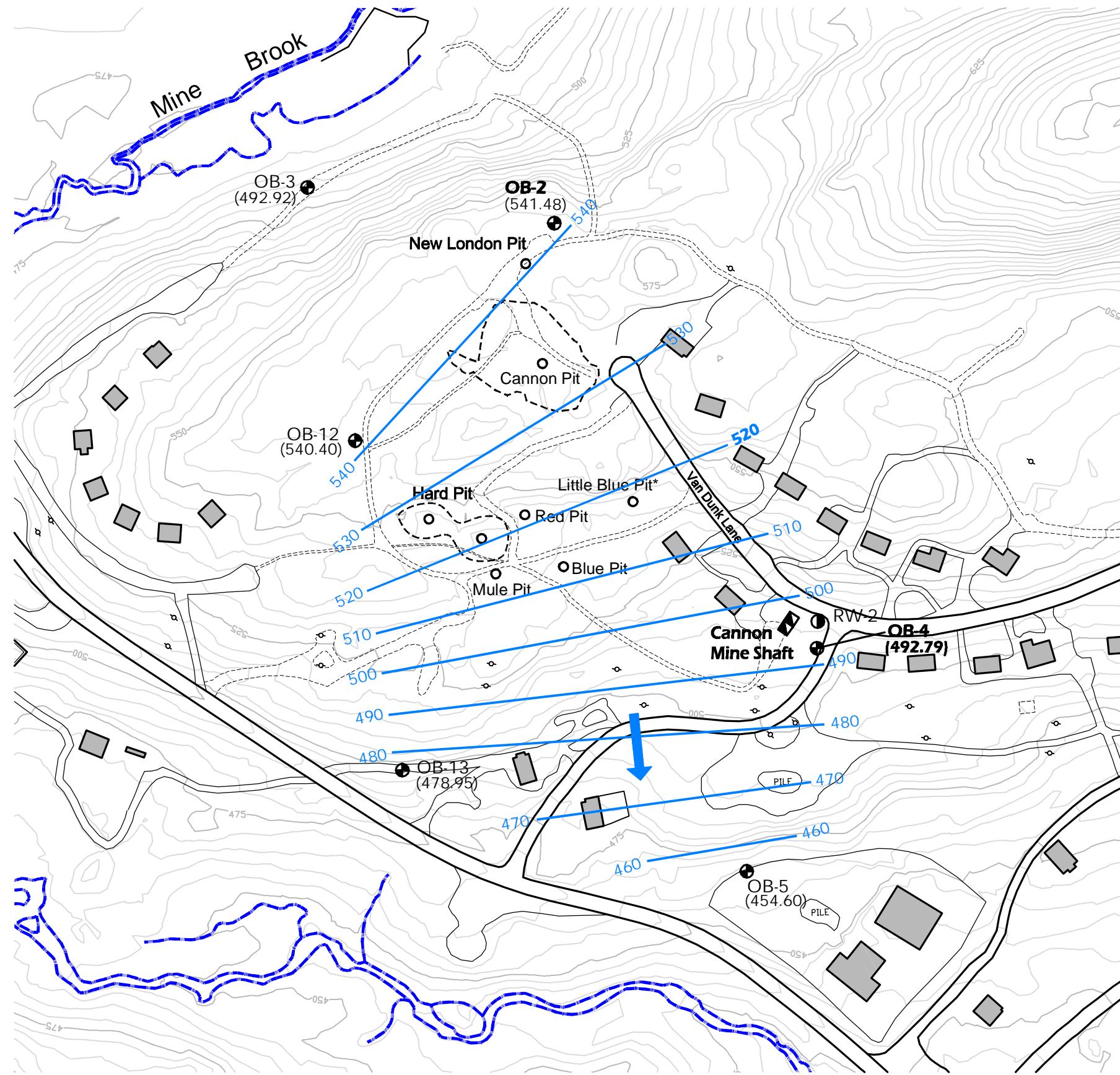
2



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LEGEND

- ◆ RESIDENCE
- - - TRAILS
- ROADWAYS
- WATERWAYS, BROOKS
- ~~~~ GROUND SURFACE ELEVATION CONTOUR
- RW-2** ● EXISTING BEDROCK MONITORING WELL WITH GROUNDWATER ELEVATION
- 460 — GROUNDWATER CONTOUR LINE RELATIVE TO MEAN SEA LEVEL
- ← GROUNDWATER FLOW DIRECTION OF SHALLOW BEDROCK INTERVAL OCTOBER 2007 (FT. MSL.) (10-FT CONTOUR INTERVAL)

01 05/07/07 DRAWING NO.

REV. ISSUED DATE DESCRIPTION

KEYPLAN

PROJECT TITLE

CANNON MINE PIT AREA INVESTIGATION
 RINGWOOD MINE/LANDFILL SITE
 REMEDIATION PROJECT,
 RINGWOOD, NEW JERSEY

SHEET TITLE

OCTOBER 2007
 SHALLOW BEDROCK
 GROUNDWATER ELEVATIONS

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SEAL

SEAL

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TASK/PHASE NUMBER 0001	DRAWN BY J. GONZALEZ
PROJECT NUMBER NJ000604.0034	DRAWING NUMBER 5